

November 1989

# The National Locksmith.



Locksmith Tool  
Issue



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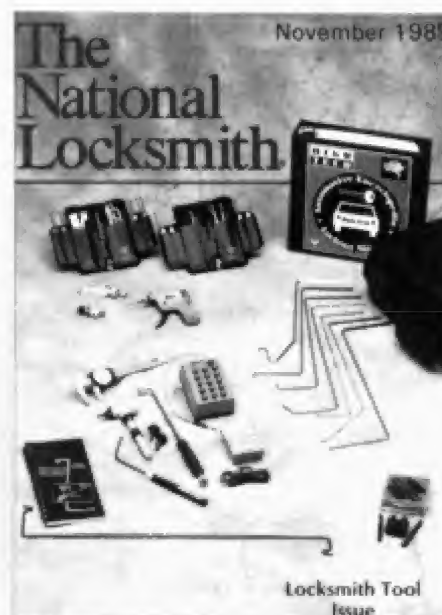
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**Click on the article  
you wish to read**

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**Editor/Publisher** Marc Goldberg  
**Managing Editor** Sandy Kucharski  
**Editorial Assistant** Veronica Razzano  
**Circulation Manager** Tracey Brady  
**Production Consultant** Marian Raney  
**Technical Editor** Robert Sieveking  
**Technical Writers** E. Lee Griggs, Ed Hill, Dale Libby, Joseph Locke, Regis McCafferty, Dave McOmie, Rick Ohmit, Don O'Shall, Jack Roberts, Shirl Schamp,  
**Advertising Sales Mgr.** Thomas Mlodoch  
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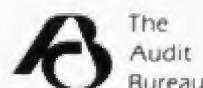


### The National Publishing Company

The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Company, 1533 Burgundy Pkwy., Streamwood, IL 60107. Phone: 708-837-2044. FAX: 708-837-1210. Second class postage paid at Bartlett, IL 60107 and additional mailing offices USPS 040110. Subscriptions \$28.00 per year in the USA; \$32.00 per year in Canada; \$37.00 in all other countries. Single copies \$4.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Parkway, Streamwood, IL 60107.

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Printed in the U.S.A.





# Commentary

## Pricing For Profit

To a great extent, the locksmith field has become a service industry. Of course locksmiths still move a lot of hardware. However, you really are different than the lumber yard in that you provide the services needed to back up the merchandise you retail. Masterkeying, repairs, installation and combination changing are all services you offer. The local hardware store can't touch you there.

Because service has become such an important commodity to the locksmith it is critical that you price yourself properly. Are you charging enough for your services? Are you charging too much? *Only you can possibly answer these questions.* It is not for me or anybody else to determine what your prices should be.

Are you letting your competition tell you what to charge? Too many locksmiths base their prices on what the shop across town charges. They are afraid to lose business if they are any higher. Customers who shop the Yellow Pages always seem to be looking for the cheapest deal. (But is the cheapest deal always the best deal?)

If you just sat down one day and scribbled out a price list, you might just be cheating yourself. Also, you might not be pricing correctly if you simply copied all your competitor's prices. After all, do you want to trust your competitor to set your most important policy for you?

You should be pricing your services for profit! This is not a charity game. Charge too little and it becomes hard to pay the bills and stay in business. Charge too much, however, and nobody will be willing to support your excessive profits. Customers then become difficult to keep.

How can you determine what you should be charging? Well, there are a few good ways. Start by realizing that your situation is totally different than any other locksmith's. You have different overhead, different number of employees...different desires for a yearly profit.

Examine your overhead expenses...all of them. Use this information to help you determine your break-even point. Anything additional to this amount of money is your profit. An accountant can help you formulate your prices based on your overhead and profit needs.

How else can you be certain to set your prices to achieve your desired level of profit? Many industries have a flat rate manual which helps companies quote prices for their customers. Walk into an auto body shop asking about repairs. They will easily and accurately estimate the job based on their flat rate manual.

Until now, the locksmith never had such a book available to him. But I am pleased to announce that the first ever Flat Rate Manual For Locksmiths is being published by *The National Locksmith*. (See page nine.)

The Flat Rate Manual tells you how to calculate your charges for any job. First the manual shows you how to easily figure your hourly rate. This rate will depend on your own unique circumstances. Once you know your hourly rate, using the book to quote any locksmith job is easy. Just look up the job you want to quote. Almost all locksmith tasks are there.

Next to the job is a number...a multiplier. Simply multiply that number by your hourly rate. The answer is your price. A ten year old with a calculator could do it! Do you *have to have* the Flat Rate Manual? No, you could use other methods to help you be sure to price yourself for profit. But using the manual, you can check yourself in just seconds. Pricing for profit will help your business become strong and stay healthy.



*Marc Goldberg*  
Editor/Publisher

November 5



# Letters

Comments, Suggestions and Criticisms

*The National Locksmith is interested in your view. We do reserve the right to edit for clarity and lengths. Please address your comments, praise, or criticism to: Editor, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107. All letters to the editor must be signed.*

## Letter To The Editor Helps Association Attendance

Please accept my apologies for not responding earlier to your very kind remarks in the February 1989 issue. You reprinted a portion of a letter I had sent to all members of The Association of Ontario Locksmiths, announcing a special meeting for Feb. 5th. At this meeting I was going to make a motion to dissolve the Association because of member apathy.

I am pleased to announce that the February meeting was a resounding success. The motion was unanimously defeated by over 80 concerned members and many of them volunteered to serve on the board of directors or committees. We came out of the meeting with a new president and vice president and nine directors—a full board of directors.

We still have a long way to go and continue to require the support of our members but The Association of Ontario Locksmiths is alive and working, and looking forward to a successful 16th

Annual Convention in October.

Your continuing support of Associations is much appreciated and needed because without strong Associations we all lose.

Ron McGuire  
Director and Past President  
T.A.O.L.  
Canada

## Subscriber Requests Input For Computer Program

I am currently a subscriber to *The National Locksmith* as a student in locksmithing and I have a request for fellow subscribers. I am currently developing a program for IBM compatibles that attempts to be the most detailed and integrated point-of-sale program available to date, dedicated for locksmith's use.

The request that I have is that subscribers write to me with any suggestions that would make this program as complete as possible with almost any imaginable feature, but at the same time extremely user friendly. I would like to market this project so any input would be appreciated.

Harold Hemberger  
P.O. Box 216  
Kingston, Ontario, Canada  
K7L4V8

## Institution Responds To 'Corporate Pay' Letter

In response to Mr. Adcock's letter "Locksmith Angered By Corporate Pay Scale," (September 1989) the Institutional Locksmith's Association may help. We are a group of in-house locksmiths who share our problems for the benefit of our institutions.

For more information write: Institutional Locksmith's Association, P.O. Box 108, Woodville, MA 01784-9986.

Paul Maziarz  
Brown University  
Rhode Island

## Master Key Program Recommendation Sought

I have just finished reading the article by Don O'Shall in *The National Locksmith* magazine, June 1989, on computers and master keying. Being one of the "stale maters" of computers I read all the articles on computerized master keying.

This article is probably the one that has promoted the questions that we will ask at one time or another "Are we doing the best job we can for our customer? Can we do it better?" Well, now I am asking myself these questions. We have always strived for the best for our customers and this has been our

*Continued on page 8*

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Continued from page 6

edge over the competition: training, education, and technical information (5 trade magazines a month).

In your article you appear to be for and against the computer. This is easy to understand. However, my question to you is simple. "What computer master key program would you recommend and where is it available and will it do the job to your satisfaction?" We are looking at an Epson which is IBM compatible. We are still looking and no final decision has been made as yet.

The reason I am asking is I am facing what could turn out to be a very complicated master key system. The key system could be easy but the layout and set up may turn out to be nasty. (An article on how to layout and chart a system would be nice, hint hint.) The job requires one master key to control the entire system and the possibility of 7 to 18 department master keys. The final count of different departments and the amount of doors under each has not been determined as yet.

This is why I am asking which computerized master key program is the best. Any light that you can shed on this will be greatly appreciated. Thank

you in advance.

Dave Cushing  
Ontario, Canada

*Editor's Note: Look for more information on programs in upcoming issues.*

## Locksmith Comments On Masterkeying Article

I am sorry, but I just have to comment on the article in the February 1989 issue, page 50 about masterkeying different brands of locks together.

As a professional locksmith I believe that die cast cylinders should not be masterkeyed at all, or any locks with such poor tolerances due to manufacturing, wear, etc. Also, I'm against mixing various brands of locks together under one key.

I'll let the nonprofessional key up or worse yet, masterkey any of these die cast cylinder locks. I'm a die hard and firmly believe in trying to adhere to manufacture's key cylinders, key blanks, etc., especially in a masterkey system. In using quality locks in a masterkey system I'll have less problems with keys

working, duplicating keys, and master pins tilting and jamming due to worn pin chambers which get out of round, and no worry of interchange among keys, and locks, due to poor tolerances in die cast cylinders.

An example could be slightly worn or even sometimes brand new die cast cylinders in which I've many times found that a key cut could vary one depth plus or minus difference and still work fine.

Now I ask you, is this the work of a true professional? Could we want a lawsuit against us for such keying procedures? There is enough loss of security in masterkeyed locksets—let's not add to them.

I would also like to know what the various lock manufacturer's would have to say about these keying procedures, and mixing of different brands of locks together, and what liabilities might be involved.

I also wonder if the locksmiths who use these procedures would include locksets such as EZ Set, Moss, Fortress, Guardsman, etc., in their masterkey systems.

William Castner  
New Jersey

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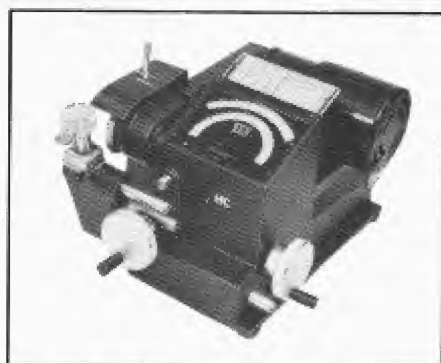
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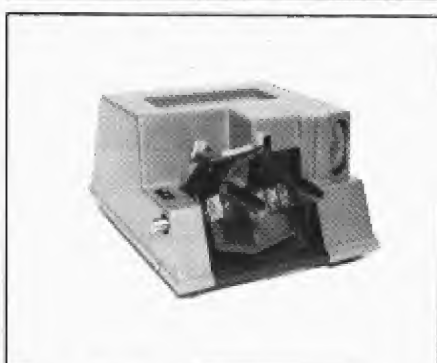
## First Prize



### HPC 1200 CM

The HPC 1200 CM machine makes accurate cylinder keys by code, quickly and easily. The ease of changing from one set-up to another is unparalleled.

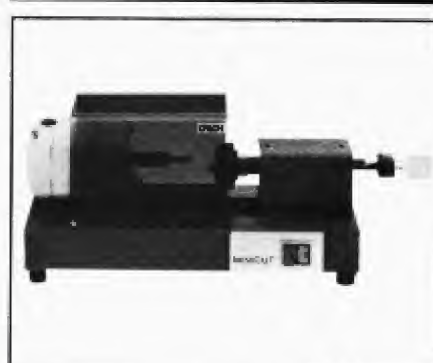
## Second Prize



### ESP 990 Manual

This machine features double-sided reversible jaws that eliminate the need for adaptors. The carriage is fixed to the sliding carriage shaft resulting in reduced play and less shaft wear.

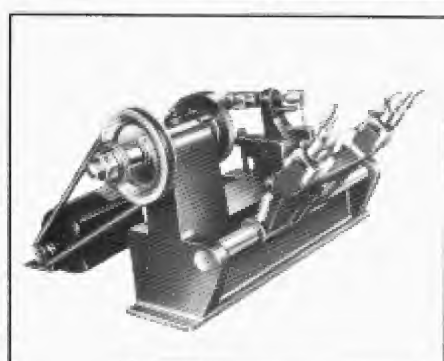
## Third Prize



### Ilco KD94

Cuts the 1137 tubular key, brass or steel accurately and quickly. Features include large chuck to hold standard size key heads, easily adjustable.

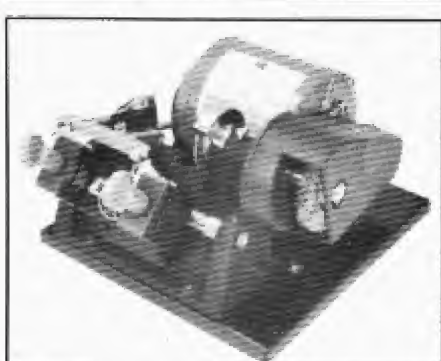
## Fourth Prize



### Belsaw 200

Duplicate, cut by code, cut flat steel keys. Complete machine with motor, three cutters, guides, and instructions. Built-in micrometer.

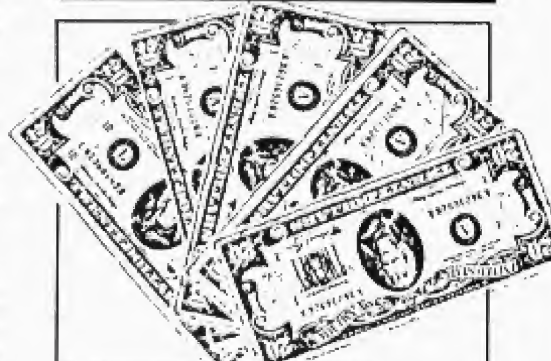
## Fifth Prize



### HPC 9160

Ideal for large key duplication. Equipped with fine double-sided jaws ensuring accurate cutting with little or no wasted blanks.

## Sixth Prize



### \$150 Cash

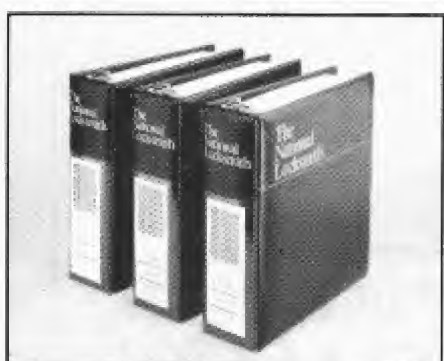
Everyone can use a few extra dollars! This prize will brighten your day...and fatten your wallet.

\*\*\*\*\*

**Code Books From The National Locksmith**

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## Seventh Prize



### General Code Book Set (NGCB)

These three books contain 450,000 codes covering domestic lock and automobile codes.

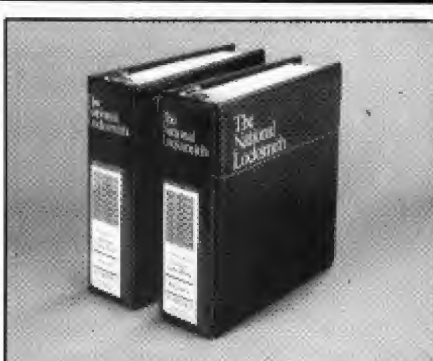
## Eighth Prize



### Padlock Code Book Set (NPCB)

These three volumes offer 462,000 codes covering Dudley, American (Junkunc), Master and Yale.

## Ninth Prize



### Foreign Car Code Book Set (NFCB)

This two volume set holds 432,000 codes for the complete variety of foreign cars, from Alpha Romeo to Yugo.



# Technitips

Helpful Hints from Fellow Locksmiths



Send me your Technitips. Who knows, you may be our next winner! c/o The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Robert Sieveking

*Congratulations to all those that have their Technitips printed this month. Thank you for taking the time to pen a few lines and explain a discovery or a particularly interesting and useful technique. The tips this month are original and informative. I hope you find something of particular use.*

## November's Best Tip

Here is a Technitip that I hope will help a fellow locksmith if called on to open a McGunn hold-up safe with a time lock.

These safes are delayed opening cash drop type containers. The safe dial acts to wind the timer mechanism. The combination is then worked and the operator must wait about 10 minutes before the safe can be opened. After the timer runs

down, the door can be opened. The safe may have a red indicator light on the door to indicate that the timer has timed out and the door can be opened. These safes will have the timer on the upper door. If the lock malfunctions, it is impossible to open the safe except by penetration. The following directions should make opening this container easy.

Dimensions are taken from the edge of the door. To open the safe, drill a  $\frac{3}{8}$ " hole  $4\frac{1}{4}$ " from the left edge of the door and  $2\frac{3}{4}$ " down from the top edge of the door. Drill only through the door. The door is  $\frac{1}{2}$ " armor plate, but not hardened. Look into the hole and you will see a vertical bar with a small screw through the bar. Use an  $\frac{1}{8}$ " drill to drill out the small screw. At this point an ice pick can be used to move the bolt bar to the right, opening the safe.

Repair of the safe is easy if you were careful in removing the small machine screw. Simply replace the screw to restore the bolt mechanism. The timer is replaced with a new unit and the door is plugged in the usual manner. These safes are a

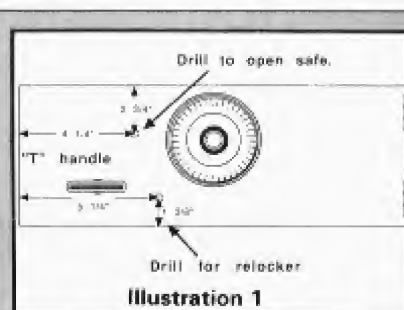


Illustration 1

maroon color that is easily matched with Krylon spray. This should be a very profitable opening if you are careful.

If the safe is burglarized, the relocker will be activated by driving the spindle. The relocker is a cable retained spring plunger. The relocker drill is shown in illustration one. Drill  $5\frac{1}{4}$ " left and  $1\frac{1}{8}$ " up from the bottom edge of the door. Fish the cable and retract the relocker to free the door.

Bob Thompson  
Colorado

\*\*\*\*\*

Here is a Technitip that can be very handy when drilling a fire safe or insulated container. After drilling through

## How To Enter

All you need to do to enter is submit a tip, covering any aspect of locksmithing to *The National Locksmith*. Certainly, you have a favorite way of doing things that you'd like to share with other locksmiths. Why not write it down and submit it to: Robert Sieveking, Technitips' Editor, *The National Locksmith*, 1533 Burgundy Parkway, Streamwood, IL 60107.

Tips submitted to other industry publications will **not be eligible!** So get busy and send in your tips today! You may win cash, merchandise, or even one of many key machines or code book sets! At the end of the year, we choose the winners of the listed prizes.

Last year dozens of people walked off with money and prizes. Wouldn't you like to be one of the prize winners for 1989? Enter today! It's a lot easier than you think!

## Every Tip Wins 'Locksmith Bucks!'

Yes, every tip published wins a prize. But remember, you must submit your tip to *The National Locksmith* exclusively. Each and every tip published in Technitips wins you \$25.00 in Locksmith Bucks! Use this spendable cash toward the purchase of any books or merchandise from *The National Locksmith*. You also receive a Bonded Locksmith bumper sticker, decal and patch. Plus you are now eligible for the really big prizes!

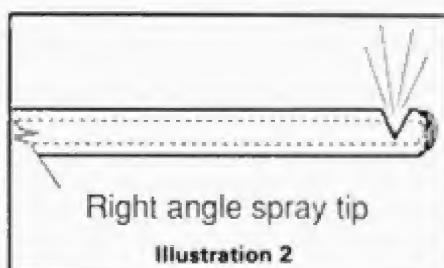
## Best Tip of the month prizes!

If your tip is chosen as the best tip of the month, you will win \$50.00 in cash as well as \$35.00 in Locksmith Bucks! Plus you will receive a quartz Locksmith watch, a Bonded Locksmith bumper sticker, decal, patch and a Locksmith Cap. Plus, you may win one of the annual prizes.



the fireproofing material, use your WD-40 spray oil to settle the dust in the hole. It seems like the cloud in the hole takes forever to settle out, and the dust is not good for the mirror tip of your borescope.

Melt the tip of the spray tube with a match, seal the tip, then put a notch in the side of the tube to allow the spray oil to come out the side and wet the sides of the hole. (See illustration 2.) This instantly settles the dust in the hole.



Ronnie Moore  
Illinois

\*\*\*\*\*



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This Technitip is a simple but effective method for aligning the tailpieces and screw holes on locksets and deadbolts when installing them. Most times the light in halls and stairs is not sufficient to see inside a door to align the actuators of some double cylinder deadbolts locksets. My solution is to use a flex light *right in the hole*, to light the inside of the lock and allow the actuators to be aligned and assembled correctly the first time. This speeds up the job by eliminating the need to remove the lock to reposition the actuators, because one or the other was not installed correctly. The light in the hole also simplifies installing the attachment screws in these low light situations.

At age 65, I am going on my third year of locksmithing. I only regret that I did not get into this 30 years ago, instead of spending most of my life in a job I hated. Anyhow, I still have a few good years left to enjoy being a locksmith.

Cecil McKinney  
Texas

\*\*\*\*\*

The following is a tip that I have had success with in my business. Mr. Sieveking's book, *Wafer Lock Reading* mentions the use of slip gauges to measure the depth and space of keys when making them by hand. This is a surprisingly simple and reasonably accurate method of making keys to dimension, but only a few of these gauges are commercially available; most must be made in the shop.

I have redesigned the slip gauge to make it easy to fabricate. The tapered slot for measuring the depth of the cuts is too time consuming to file by hand, so I changed the design as shown in illustration three. Cut the sheet metal to size, making the blank  $\frac{1}{4}$ " longer than the  $2\frac{1}{4}$ " dimension. This will

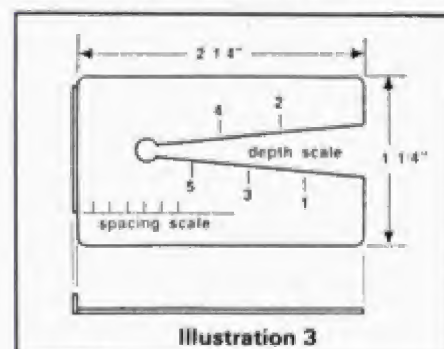


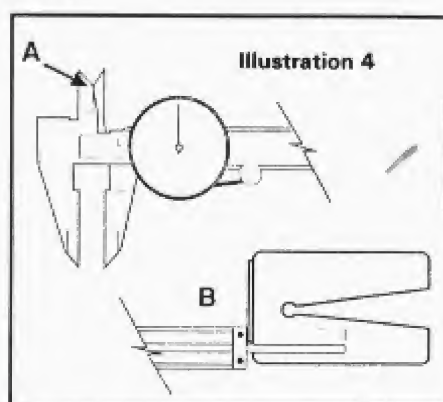
Illustration 3

allow the edge of the tool to be bent up, forming a shoulder stop for the key space measurement. A  $\frac{3}{16}$ " hole is drilled or punched in the blank, at the approximate position shown, and the



tapered slot is made by cutting the blank with a pair of metal shears. The only hand file work necessary is to round the corners and remove any sharp edges.

Calibrate the tool, using depth and space information from a code book or from *The National Locksmith Depth and Spacing Book*. Use a dial or vernier caliper to transfer the dimensions to the new tool. Set the caliper to the desired depth dimension, then slide the inside measuring ears (see illustration 4A) into the tapered slot, as you would a key.



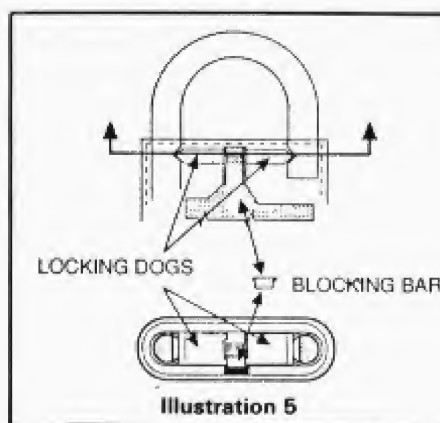
Mark the slip gauge with a sharp awl to indicate the correct depth. Mark the gauge at each depth given for the key. Use the hole depth gauge of the caliper (see illustration 4B) to calibrate the slip gauge for the correct cut spacing. After marking the tool carefully, go over all the markings with an electric engraving tool. Key and code information can also be engraved on the tool for convenience.

Raymond Lutz  
Ohio

\*\*\*\*\*

This Technitip is for a quick method of unlocking the Corbin Sesamee and Master resettable four wheel combination locks without destroying them with a bolt cutter. Though there are a number of methods that "should" work to open the lock and decode the combination, the manufacturer has over the years increased the security of these locks and made "feeling out the code" with a shim extremely difficult. This tip will allow you to remove the lock in just a few minutes without serious damage, and you can decode the lock using any method you like in the comfort of your shop and at your convenience.

Illustration five shows the locking method used on these locks. Two locking dogs are spring-loaded outward to engage the notches in the shackle. These locks are "heel and toe" locking,



which means that both sides of the shackle are held in the lock body. The blocking bar separates the locking dogs and prevents the shackle from being released. The small ears on the side of the blocking bar prevent the lock from being opened without first depressing the shackle. (Pulling on the shackle cannot place pressure on the locking wheels or mechanism.)

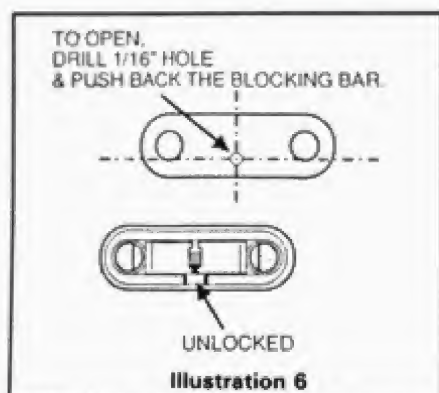
To open this lock, drill a 1/16" or smaller hole in the top of the lock body as shown in illustration six. The hole should be centered between the shackle



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legs and in line with the edge of the shackle holes, as shown. Use a wire probe to push the blocking bar toward the outside of the padlock as you depress the shackle. The lock can then be removed and decoded later. The hole can be filled or repaired as necessary, to restore the security of the lock. Save time by selling your customer a new lock and setting it to his secret combination for him.

Paul Frederick  
Pennsylvania

\*\*\*\*\*

This is a fairly simple Technitip, but that doesn't diminish its usefulness around the shop. Our shop has two

Ford vehicles that I have been trying to find time to key alike. Much like the cobblers shoes always being in need of repair, I never seem to get enough time to do the job. I finally solved the problem without rekeying the locks at all.

I cut one side of a Ford blank to fit one vehicle and the other side to fit the second vehicle. The Ford locks only use one side of the key. They are double-sided only for convenience. I notched the head of the key so that it would be easy to tell which way to insert the key for either vehicle. The same trick was applied to the door key, with equal result. I now have a single pair of keys that will operate both vehicles and it only took the time necessary to duplicate a pair of keys.

Sometimes the simplest ideas are the greatest time savers.

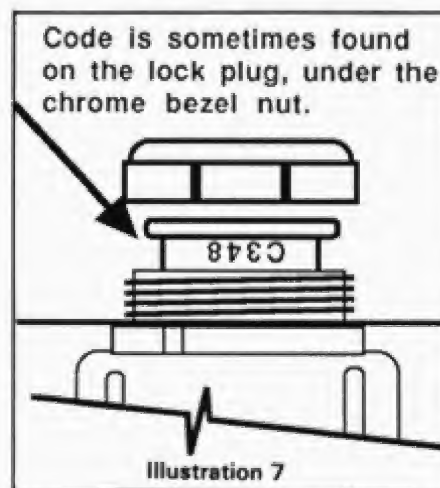
Gerald C. LaPierre  
Maine

\*\*\*\*\*

I have two Technitips to submit this month.

First off, I recently read in a trade magazine that most semi-truck ignitions do not have code numbers stamped on them. My Technitip is that the codes

for these locks are stamped on the lock plug, under the bezel nut. Remove the bezel nut and look around the top edge of the lock plug. Illustration seven



shows the location of these codes. These ignitions can be read or impressioned in most cases if the code is not found. Disconnect the battery before removing these ignitions. Battery power is present at the rear of the switch and can cause a serious problem if you touch the metal body with a wire as you are removing it.

My second Technitip is for a spare



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key to a Ford 10 wafer lock that will not compromise the auto. I had a customer that wanted to hide a key on the outside of her car, but was afraid that if the key was found, it would allow someone to steal her car. The 10 cut systems allowed me to make a key, using only the first six cuts of the key, that would operate the door lock but be restricted from operating the ignition lock. If the customer locks her keys in the car, she can use the spare key to let herself into the car.

R. Lazich  
Wisconsin

\*\*\*\*\*

Here's a tip that will likely be a money maker for the locksmiths and a loss for the Slim Jim artists in your area. The '87 Chevy Blazer with electric windows has a plastic window channel across the bottom of the side glass that can become dislodged by the unsuspecting non-professional as he tries to open the door. If the door is not wedged properly before the opening tool is inserted, the channel will be pushed off the bottom of the glass. The tabs that center the channel will be forced down and pass to the outside of the glass, creating the problem. Every

time the window is raised or lowered, the plastic channel will catch on the door handle mechanism and make a loud snap.

By removing the inside trim panel, the problem can be easily repaired by replacing the channel over the edge of the glass, as you see in illustration eight. The flexible strip is held in place



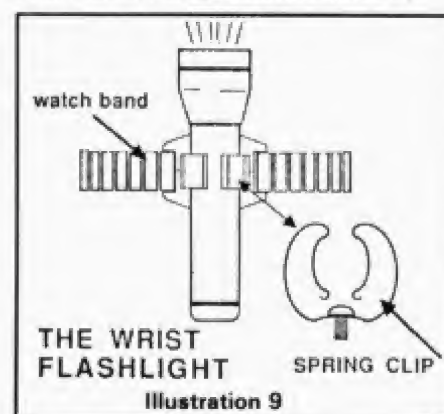
by two tabs, about 1" high, which should be on the inside of the glass. Repair the door, charge the customer accordingly and caution them against allowing non-locksmiths to open cars.

Robert R. Larson  
South Carolina

\*\*\*\*\*

This Technitip is for a wrist flashlight. The wrist flash puts light where

you need it, on those night calls when there is not enough light. The wristband is a standard flex style watch band, but the watch has been replaced with a 1/4" thick aluminum block. The block is cut and filed to accept the ends of the watchband and drive pins have been used to attach the band to the block. The spring clip, available in most hardware departments, is attached to the aluminum piece by an 8-32 x 1/4" machine screw. (See illustration 9.)



The clip will hold a miniature flashlight, focused at your fingertips for plenty of light on those moonless nights.

Robert Purdy  
California

\*\*\*\*\*

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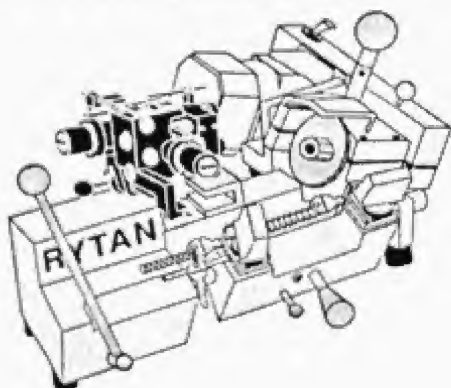
# Newsmakers

New Products and Industry News

## The Key Connection Offers Rytan and Silca

Arthur Schwartz, President of The Key Connection, announces the availability of excellent quality key machines manufactured by Rytan and Silca. In fact, the wholesaler has made a special promotion to the locksmith. You will receive a free assortment of sixty different popular Silca rubber headed key blanks when you purchase any one of the following machines: Rytan's RY100, RY45, RY256CD, Silca's Poker Plus, Club, or Cadet.

The machines are available for excellent prices, and offer the locksmith tremendous quality for an affordable cost. The Key Connection also is a complete source for automotive locks, key blanks, parts, and pinning kits. They are one of the largest sources for Briggs & Stratton products. Call (800) 237-8446 for further information.



## Seco-Larm's 5100DL-11 Vehicle Alarm

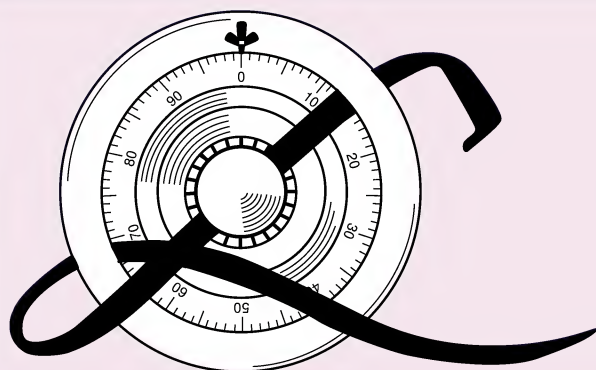
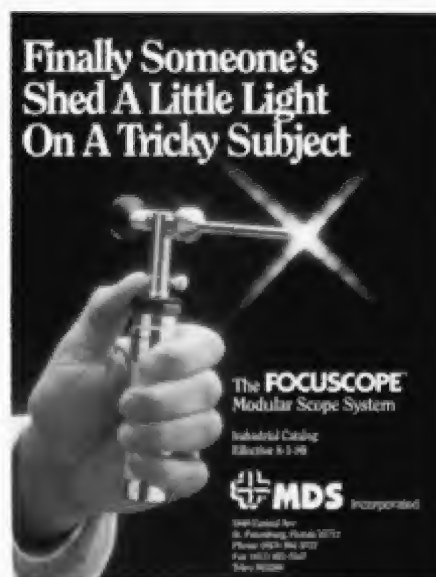
Seco-Larm is offering a state-of-the-art vehicle alarm with easy installation and the built-in conveniences of light flashing and door lock/unlock outputs, to name a few. The Enforcer 5100DL-11 is a selectable passive/active remote alarm which has comparable alarm features at a lower price.



The Enforcer 5100DL-11 includes the standard features of the Enforcer 5100DL, and it also offers over 1000 available codes compared to the Enforcer 5100DL's 256 codes. Features of the Enforcer 5100DL-11 include a patented two step disarming with automatic rearming to prevent accidental disarming, selectable current sensing, and selectable "chirp" disable for arming indication. An L.E.D. flashes to indicate when the alarm is armed. A shock sensor provides pre-intrusion protection, and the starter disable supplies an extra level of protection.

## MDS Incorporated Has New Catalog Available

The new Industrial/Security catalog is now available from MDS Incorporated. This complete catalog lists the manufacturer's line of diagnostic tools, including their unique Modular Focuscope™ System. Line drawings and photos are illustrated throughout this new manual for a quick reference guide to products that may fill your immediate needs.



**Lockmasters has a 44 year history of training security professionals.**

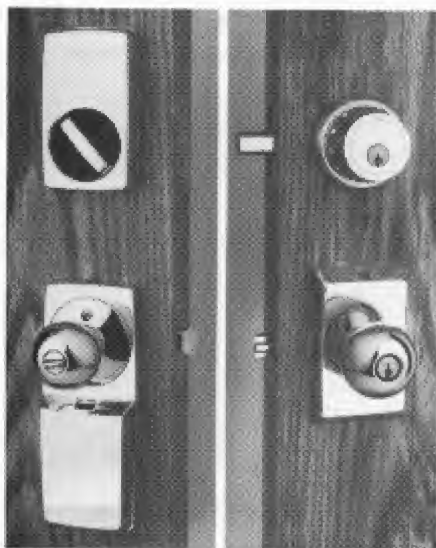
[Click here for more information](#)



## Schlage Key 'n Keyless Electronic Entry System

A complete knob lock and deadbolt system that allows for electronic keyless entry and exit is available from Schlage.

Key 'n Keyless is an advanced locking security system that allows for entry of a personal access code to simultaneously unlock the knob lock and deadbolt. It eliminates the problem of lockouts, misplaced keys, and the need to hide or leave keys with a neighbor.



The unit works off four "AAA" batteries and one "9-volt" battery that will last up to one year. It contains a low battery warning and key override feature. One hundred percent solid state "C-MOS" electronic circuit is used for reliable operation in all weather conditions.

Circle 235 on Rapid Reply

## Trans-Atlantic Supplies Fully Cylindrical Locksets

Trans-Atlantic Company offers an ANSI Grade One and Two series of fully cylindrical locksets which can be supplied with any of the 22 different popular commercial keyways of Lori Corp. at very competitive prices. These include the SV series ANSI Grade Two ball knob design; LXV series ANSI Grade One key-in-lever type; and HV series ANSI Grade One in ball knob design.



Circle 236 on Rapid Reply

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## Safety Lockouts From Master Lock

Pending OSHA regulations make providing employee protection vital. The Safety Lockout system from Master Lock helps safeguard work teams against accidental injury and preserve equipment from inadvertent damage.

The No. 420 Safety Lockout secures switches and valves in a neutral or "off" position during system maintenance until all members of the team are clear of danger. Up to six personal padlocks can be applied to the device and every



padlock must be removed before the lockout can be opened to actuate the control. Locks can be color coded by service or department function and tagged for personnel identification.

## R&D Tool Designs New GM Decoder

R&D Tool Company announces a newly designed decoder for the GM side bar pick set. The decoder works the same as the old one, but is much easier to read. It is longer and can be read from both sides which is especially helpful on the ignition locks.

There are windows to read through. For instance five windows is a number 5 cut, four windows is a number 4 cut and so on. Also more torque can be used when raising the movable handle to feel resistance of the wafers. The new decoder is available for immediate shipment. Any customer that has the old decoder may purchase the new one at a reduced price.

R&D Tool Company also has a new address and phone number. R&D Tool Company, 7705 RC Gorman Ave. NE, Albuquerque, NM 87122-2738. Phone (505) 828-2664.

## Architectural Control's New Gemini Keypad

The new programmable Gemini security keypad from Architectural Control Systems, Inc. (ACSI) provides security reliability and peace-of-mind in access control situations. Featuring numerical scrambling technology, a limited viewing angle and four locking modes, ACSI's new Gemini 1370 keypad combines state-of-the-art technology with affordable convenience.

Utilizing a simplified, "user-friendly" format and single-digit display, the Gemini 1370 responds to 434 different user codes and seven user groups.



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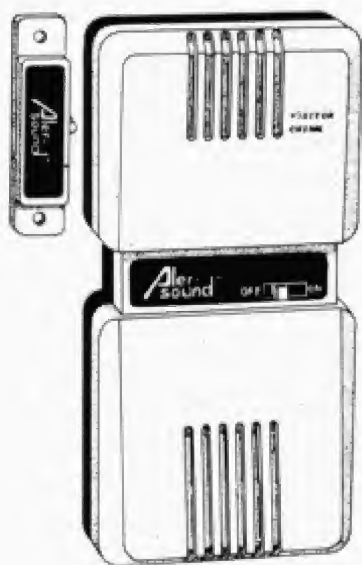


## Peterzell Company Offers A Hi-Tech Annunciator

Doors can be monitored with a hi-tech annunciator from the Peterzell Company, which alerts merchants or homeowners when people are entering or leaving their businesses, offices, or homes.

Made of completely solid-state electronic construction, with no wiring required, it produces a pleasant musi-

cal, 3-second ding-dong chime that can be heard from 50 feet away. The unit consists of a compact, lightweight, control box and also a magnetic sensor. Both members are provided with heavy-duty pressure-sensitive tape backing for fast installation on wood, metal, or glass doors. It operates on two "AA" batteries that are included.



## National Lock Introduces New Lever Set

The Kingston™ lever set from National Lock Corp., features sleek styling for a contemporary look.

Available in bright and antique brass finishes, the Kingston is part of a full line of levers which includes: keyed front and back door locks, bedroom and bath locks, hall and closet latches and dummy trims.

The Kingston features adjustable latches for 2 3/8" or 2 1/4" backsets and fits cross bores from 1 3/4" to 2 1/8". It is reversible for right or left-handed installation. It is currently available to builder/contractors in builder-pack cartons.

## JLM Moves To New Facility

JLM Wholesale has moved to a larger facility as of September 8, 1989. The new building has nearly double the current warehouse space, as well as a larger office area.

The new address is 3204 Adventure Lane, Oxford, MI 48051. The current (800) 522-2940 phone number will still work in the USA as well as Michigan and they have a new Fax number (313) 628-6733.



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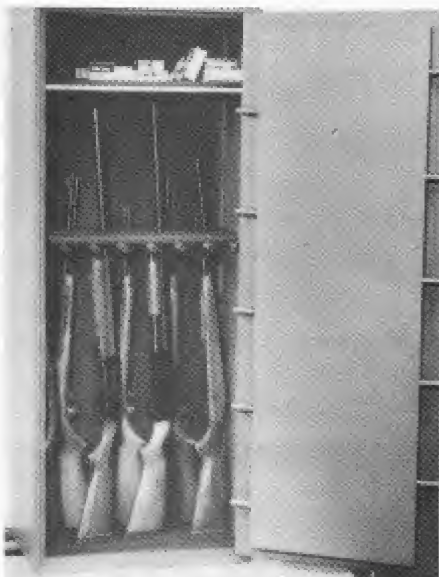


## Hayman Safe Company Redesigns Gun Vault

Hayman Safe Company announced the availability of its redesigned GV 60. Immediate response has put delivery at three weeks.

The new model GV 60 features ¼" steel body, ½" steel door, 21 position cushioned gun rack, cushioned steel shelf, adjustable shelf tracks, recessed door, and 10 active ¾" lock bolts. The 60" x 24" x 18" Gun Vault has dual relockers, anti-drill hardplate, cushioned back and bottom and a stainless steel door handle.

The 650 pound GV 60 is available through Hayman Safe Dealers.

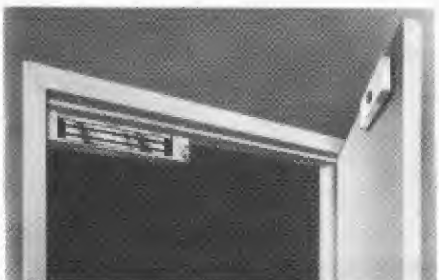


## Dortronics Introduces New Electro-Magnetic Line

Dortronics, Inc., of Bristol, CT, has introduced a new, re-engineered line of surface mounted electro-magnetic locking devices.

While retaining the architecturally preferred narrow 2" profile, the new Ultra-Lock 1110/1120 Series projects ⅜" less and is from 1½" to 2" shorter than other narrow profile designs, reducing the need for brackets or relocating door closers.

The 1110 Series for single doors, and the 1120 Series for pairs of doors, pro-



vides over 1200 pounds of holding force per leaf, and is offered in a choice of five engineered operating voltages: 12Vac, 12Vdc, 24Vac, 24Vdc and 48Vdc with color coded leads for easy positive identification. To assure maximum efficiency, models have been specifically designed for single and pairs of outswinging, inswinging, and sliding doors, with brackets and one-piece custom length housings to accommodate most door and frame conditions.

The smaller Ultra-Lock Jr. 1106 series is 1" shorter than its predecessor, provides over 500 pounds of holding force, and is available in four operating voltages: 12Vac, 12Vdc, 24Vac and 24Vdc.



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## A New Safe Lock Pick

"The Skip pick is used to pick open the La Gard 2200 key operated safe lock. The pick will turn one wheel at a time, until the lock can be opened."



Send your car opening questions to: Shirl Schamp, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Shirl Schamp

**I**t is interesting, especially if you've been in the business as long as I have, to watch things emerge and certain perceptions develop around them. Then just as the sun rises, someone comes along and makes his statement shattering all these assumed facts.

Manufacturers are always introducing products stating, "This lock has never been picked or manipulated," and then sure-enough, someone does it.

The La Gard 2200 key operated safe lock gave this impression and weathered the storm for quite some time prior to the success of the true locksmith artist—but it caved in. Do not for a moment think I'm trying to diminish the quality of this lock. I prefer to think of it as exalting the ability and ingenuity of the locksmith, or in this case a safe mechanic. For those of you who aren't familiar with the La Gard 2200 it's a safe lock, similar in construction to a combination-operated safe lock, but it

functions with the use of a round key rather than the dialing of a combination. (See photograph 1.)

I'll get to the pick that was used in a moment, but first I want to make you aware that you do need some type of



1. The La Gard 2200 round key operated safe lock.



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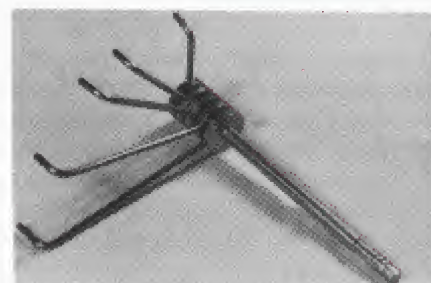
listening device to let you hear the action of the lever fence against the drive cam and wheels. The higher the quality of the listening device, the faster and more efficiently the skip pick will work. I don't want to give you the impression that you are going to attach these things to your safe and suddenly become James Bond. After you have what you need, you still have to work at developing this skill. It will take more than just a little practice so plan on putting in some time to learn. The pick is available from Lockmasters.

The manufacturer used a lot of foresight when designing this lock. He anticipated the probability of someone figuring out a method of turning one wheel at a time while listening with a device to hear a difference in the sound as the lever contacts a gate, so he placed false gates around each wheel. (See photograph 2.) This is very effective, but there is still a marginal difference in the sound. This is what you want to tune your ear in to differentiate.

The skip pick has been designed to do exactly what we've been saying—it will turn one wheel at a time. It has five bits on the tip, each individually attached to an "L" handle on the other



2. False gates have been placed around each wheel.



3. The skip pick.

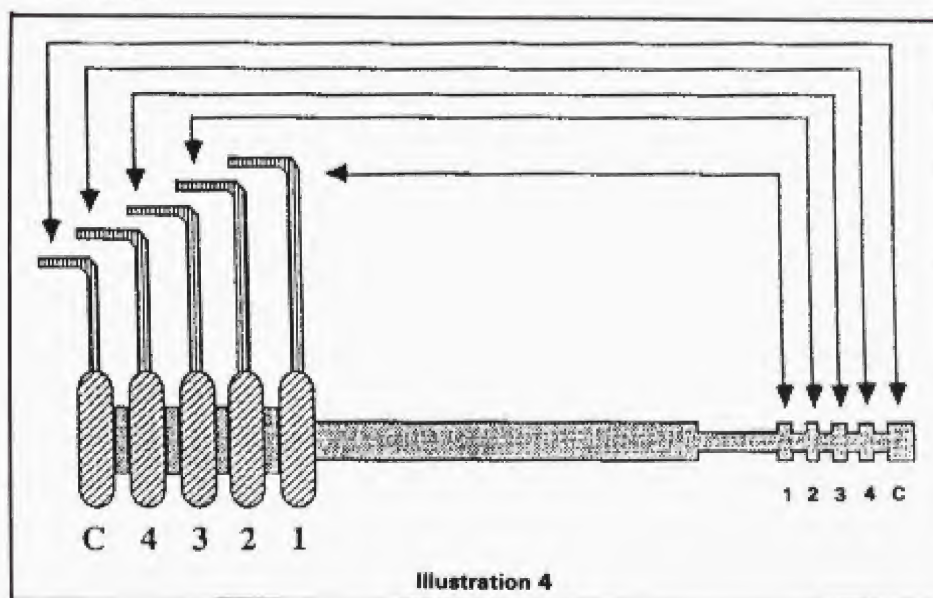


Illustration 4



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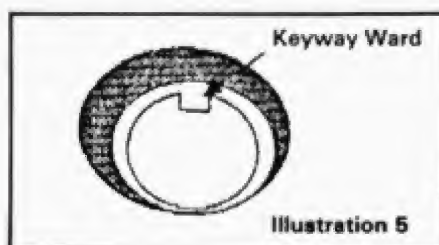
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end of the tool. (See photograph 3.) This allows control of one wheel at a time; of course don't forget to have the listening device attached. First align all five bits of the skip pick by rotating the "L" handles. When all "L" handles are in line with the handles at twelve o'clock, the bits should all be in a line. (See illustration 4.)

Now, look into the keyway of the 2200 lock to locate the ward. The ward is the square notch found on the edge of the circumference of the keyway. (See illustration 5.) Insert the pick into the keyway once the bits are all aligned with the ward. Make sure the pick is fully seated into the lock. Sometimes it is necessary to wiggle the individual "L" handles slightly to accomplish this step.



I should pause for a moment and put some stress on being gentle. It is not quite the same as the lock being attacked from the outside. You've penetrated directly into the inside of the lock and are in contact with the wheel pack itself. Rough handling could cause damage to the wheels. In fact, in most cases, whether you are working on a safe lock or a regular lock it will manipulate easier without any undue

force.

The order that the "L" handles work is as follows (refer to illustration 5): The "L" handle on the end will function the bit labeled "C." Begin your manipulation with that one because it moves the drive cam. While moving handle "C," listen and feel for the sound of the lever fence hitting the side of the drive cam gate. With the practice we discussed you should be able to recognize a distinctive difference.

When you have found the cam gate area, center the gate. This should be centered between the knocks you hear as the lever fence hits the right side of the gate and when it hits the left side of the gate. This setting will remain the same for either a right or left-handed lock. It is between four or five o'clock for the right-handed lock and about eleven o'clock for the left-handed lock.

The next handle you work with should be the number four "L" handle which controls the movement of the fourth wheel in the lock. This "L" handle will have the most drag. On the right hand locks you will have to move the handle from one o'clock to six o'clock to find your gate. However, remember that the 2200 has false gates around its circumference and will generate other noises. You want to listen for the sound that is somewhat different. It might not be the loudest, only different. Center the number four wheel.

Work the handle progressively from "C" through "I" (top to bottom). (See photograph 6.)



6. Work the handles progressively from top to bottom.

Because the keys are only made to rotate 180 degrees (one half turn) in the lock, you only have to worry about the five false gates and one real gate. This is why you only need to move the handles from one o'clock to six o'clock on the right-hand mounted locks.

Park each handle where you feel and

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hear the distinctively different sound. You then repeat if necessary, with handles "4" through "1." Each time through you should better hear and feel the real gates in the wheels. If the lock is mounted in any other position than right hand, you may have to use the handles from four o'clock to eight o'clock for vertical up, seven to eleven for left hand, etc. It is easy to tell the handing of the lock from the outside of the safe by looking into the keyway or sliding in a blank.

Once the lever has dropped, retract the lock bolt by using the "1" handle, since it is the strongest biting on the pick. Once the safe door is opened, you can extend the bolt via the "1" handle. Use the "C" handle to raise the fence out of the gates, then align all the bits with the keyway ward, and carefully remove the picking tool.

*Remember: your prime objective is to be gentle, treating a customer's item with respect will enhance your reputation as a first-class safe technician.*

Similar to the television program *That Was The Week That Was*, the manufacturer immediately made changes to the 2200 safe lock to curb this type of attack. He wants to maintain

a reputation of producing products that provide maximum security, so here's what he did: 1. He added a post in the keyway requiring a hollow-tipped key (see photograph 7). 2. There's an



7. Hollow-tipped key required for new lock design.

apparent change in the biting. It appears to go through to the center of the key. This visual difference could just be the result of hollowing the key (see photographs 8 and 9).

So for the moment the manufacturer is again ahead of the maximum security problem. It's a game that goes on forever. It is now the locksmith-safeman's move. I wonder how long before we see a tool surface to defeat



8. Two views of the hollowed key....



9. ....compared to the earlier solid key.

these changes? The locksmith/safeman is really a wonder to be reckoned with, but then, so are the manufacturers. ■

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## High Tech Car Openers

---

"The model 1700 is designed to be a complete set of auto lockout tools. The most unique feature of the set is that they are constantly being updated."

---

Today's security specialist faces a wide variety of tasks which he must perform quickly, correctly, professionally and above all, profitably. The locksmith industry is becoming increasingly competitive, and as it does, this simple rule becomes more and more important.

Probably the single most important factor necessary to accomplish this is having the right tools to do the job.

There are literally hundreds of tools available to the locksmith. The task of finding the right tools takes a bit of expertise in itself.

The first thing to look for is, of course, quality. The tool should be well

made and the manufacturer should guarantee it. The tool should be versatile, and it should cover a variety of applications so you don't have to buy one tool for every job.

Perhaps one of the most important things a tool should have is a complete set of instructions. In most cases an adequate set of instructions is all a locksmith needs to accomplish a task that he has never done before.

Another important factor is the ability to update the uses for the tool. If a tool is designed to perform a task that may change, then the tool should be adaptable so that it does not become obsolete. The manufacturer should be

willing and able to provide you with all the necessary information.

The auto lock service segment of the locksmith industry is highly dependent upon precise up-to-date tools. Lockout business can be extremely profitable and rewarding when handled professionally.

There are many companies that market tools for locksmiths. High Tech Tools carries one of the largest selections of tools in the industry. They also manufacture a line of auto lockout tools.

The High Tech Tools Model 1700 is designed to be a complete set of auto lockout tools. (See photograph 1.)

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security solutions.*





1. High Tech Tool's model 1700 auto lockout set.

Perhaps the most unique feature of these tools is that they are continually being updated. With automobiles changing so rapidly, this becomes a very important factor. Customers are kept up-to-date by a computerized updating system.

The High Tech Model 1700 is based on the concept of having the right tool for the right job. There are 19 different tools which never require bending or reshaping in order to open a vehicle. Each tool is designed to go directly on the linkage without unnecessary fumbling inside the door.

Lets look at a typical lockout with the Model 1700. Suppose you need to open a 1989 Rolls-Royce Corniche. Tools for this car, along with the 1990 Chevrolet Lumina and Porche 928 were just sent out as an update at no charge to all the Model 1700 customers. Now you may never get a call for Rolls-Royce, but whatever set of tools you get should cover as many vehicles as possible. You never know what car you'll get a call for and you should be prepared.

The first thing you'll do is turn to the Rolls-Royce section where you'll see the "Fact Sheet" page. (See illustration 2.) This page will show you all the


ROLLS ROYCE CORNICHE				
FACT SHEET				
Make/Model: Rolls Royce Corniche				
Year: All				
Tool to Use: 				Yellow Tool
Key Blank #: (No EZ #)				
1989	1990	1991	1992	1993
1989-1990	1990-1991	1991-1992	1992-1993	1993-1994
1989	1990	1991	1992	1993
1989-1990	1990-1991	1991-1992	1992-1993	1993-1994

Illustration 2

information available for a particular vehicle or vehicles. In the case of the Corniche, you'll see that the information

given will be applicable to all model years for this vehicle. Also found on this page is a diagram of the proper opening tool (in this case the Yellow handle tool) and a list of key blank reference numbers. These reference numbers can be very convenient should the owner of the car desire a new key.

Turning to the next page, you'll see the opening instructions for the Corniche along with a drawing of the inside of the door showing the location of the lock linkages and the correct position of the tool. (See illustration 3.) Take a few moments to carefully read the instructions and study the diagram

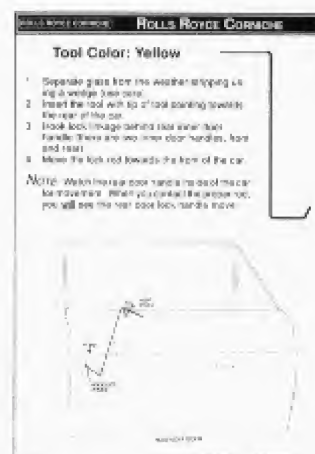


Illustration 3



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ROLLS ROYCE CORNICHE

ROLLS ROYCE CORNICHE



**Photo 1**  
Corniche.

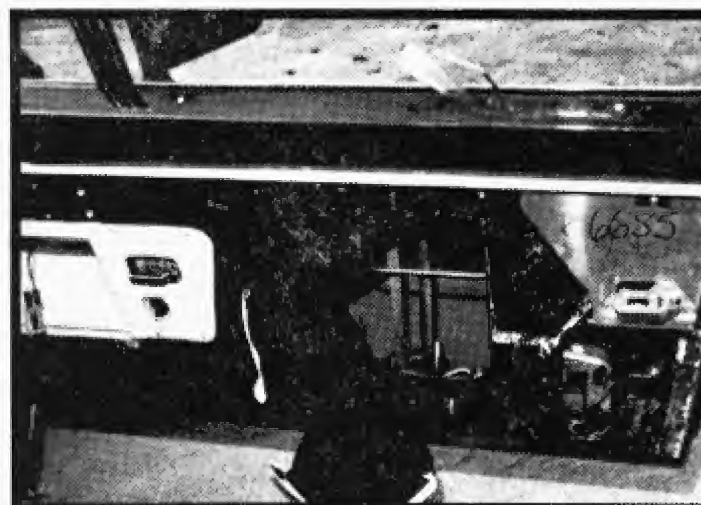
**Photo 2**  
Tool in working position.



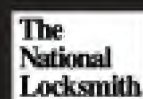
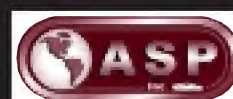
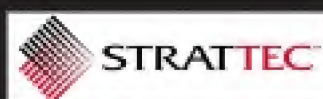
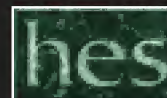
**Photo 3**  
Tool in working position.



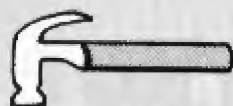
**Photo 4**  
Door with panel off.







TOOLS



# Tool

# Review

If there is one thing that locksmiths really love it is their tools. There is a tool for every purpose under heaven. Some are clever and nice to have. While others are truly indispensable. In this product review section we present you with a variety of the tools manufactured to meet the needs of the locksmith. Feel free to use the Rapid Reply card to request information on any interesting product you may see here.

## Aable's New Breaker Kit

Aable Locksmiths offer a new breaker kit for tubular locks and cylinders. This kit is unique, as it attacks the center core. Once the core is free from its housing, it will turn, opening the lock.

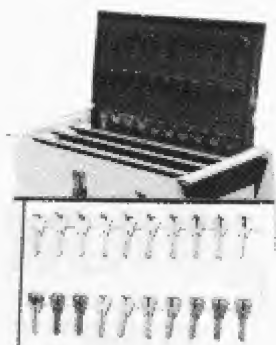
On some locks you need only insert the breaker tool into the keyway, apply slight turning pressure to the open position, and the lock will open with no drilling needed. On other locks you will use both tools and the standard 5/16 drill bit, which is included.



## ABC Lock Co.'s Keyboxes

ABC Lock provides metal boxes with rows of hooks that hold up to 14 keys each. Made especially for extra long keys, the hook rows are spaced 2 3/4" standard or 4" wide space. The standard panel has three rows of hooks. The wide space panel has two rows of hooks.

Standard and wide panels can be mixed in the keybox.



## ALS Expands Illumination Line

American Locksmith Service, designers and manufacturers of locksmithing tools, announces the expansion of their illumination products line. Joining their ALS 10100 (Standard 27" Bend-a-light), and ALS 15100 (Krypton 40" Bend-a-light), will be the ALS 16102 (Mini 11" Bend-a-light).

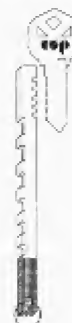
Also to compliment the line, the specialty products company will feature the ALS 802 (Hands Free "Bright Eyes" headlights) and a list of accessories.



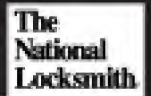
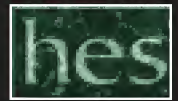
## ESP Introduces Family of Gauges

ESP Corporation has introduced a family of 12 decoding and spacing gauges to its extensive line of locksmith tools. Several functions can be accomplished with these tools including immediate decoding of key cuts, identifying proper location of cuts for impressioning, and checking the accuracy of key machine spacing and depth keys.

Decoding a key is accomplished by fitting the keyblade into corresponding numbered cuts until a snug fit is obtained.







### Gil-Ray Offers Cutter Sharpening

Gil-Ray Tools Inc. offers a mail order sharpening service for dull key machine cutter wheels.

Established in 1945, Gil-Ray Tools sharpens and repairs all types of dull machine cutters including: code cutters, duplicating cutters, slotters, and file cutters. They sharpen all materials including high speed steel, tool steel and carbide.

All dull wheels are restored to blueprint specifications and can be re-sharpened many times.



### High-Tech's Lock Removal Tool

The new wheel lock removal tool from High Tech Tools can remove wheel locks from all types of wheels. This set comes with complete illustrated instructions that show you exactly how to use the set.

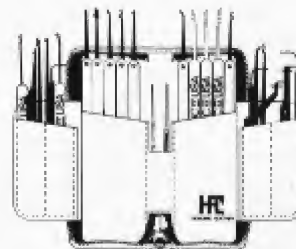
Wheel locks have always been a problem for the locksmith since none use a key or cylinder like other locks. In the past the locksmith would have to turn down jobs where the customer had lost his wheel lock key. Now the locksmith can handle this with ease.



### Pro-Mixer Tools From HPC

The new NDPK-24 Pro-Mixer contains the best of the professional tools from HPC's regular line and some of HPC's "2000" series. With this set you will experience that great feeling using the "2000" series key extractors.

HPC's pick handles are formed for the sole purpose of giving you the best transmission of feeling from the pins to your fingers, making you a skilled locksmith. The set comes equipped with 24 picks and tension tools and a black leather zipper case.



### J.S. Product's Steelman™ Light

J.S. Products, Inc., introduces its new product, Steelman™ 40" Krypton Bend-A-Light™ (extra long) to the professional locksmith market.

Model #15100 is a flexible high-intensity light tool for use in car opening procedures and safework.

The new Krypton unit comes with three AA Ever-ready Energizer alkaline batteries and features a flexible brass alloy shaft, ultra bright krypton lamp and extension-cover.



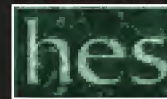
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### Jiffy GM-1 Lock Cap Clincher

The GM door and trunk lock cap clincher from Jiffy Lock is a simple, safe and fast tool to tightly crimp the four tab replacement caps after re-keying a lock.

In operation the lock is held in the tool with one finger and handles are squeezed to clinch two tabs. The lock is then turned 90 degrees and the other two tabs clinched.

The tool is made out of tough plastic and the lock is cushioned on live rubber to tighten tabs, and prevent marring. It can be hand held or used in a bench vice.



### Kent-Moore Has V.A.T.S. Interrogator

Kent-Moore Automotive Division has available the V.A.T.S. Interrogator, J 35628, to interrogate the onboard computer of the 1986-1990 Corvettes and 1988-89 Camaro and Firebirds with the vehicle anti-theft system (V.A.T.S.).

J 35628 will determine the electronic code of a key—necessary to identify for duplicating an existing key. If a key is lost, J 35628 will decode the system and determine the correct key blank to use for making a new key.



### MDS, Incorporated's Visor Clip-Lite™

MDS, Incorporated announced the release of a unique Visor-Clip Lite™ assembly, complete with a special 10 power auxiliary lens and removeable yellow filter.

According to the manufacturer, this assembly may be used for emergency impressioning, as an aid for removing broken keys from cylinders, or dozens of other jobs when you want to eliminate that "third hand" around the shop. Users report that night impressioning improves 100% with the use of the yellow filter.



### Slide Locks' Z-Tool Update

By use of Crack 'N Peel paper, the Z-Tool manual from Slide Lock Tool is designed to hold two years of new instructions and illustrations as well as the page for current "vehicle index guide."

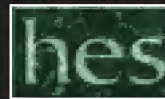
Some of the newest models include: Nissan's 240SX, 1990 300ZX, Plymouth Acclaim, Dodge Spirit and many other manufacturers newest models.



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### Tri-R-Products Lockout Tools

The Sully Tool Division of Tri-R-Products, Inc. is introducing its new 1990 line of Genuine Sully Car Lockout Tools.™ They guarantee that locksmiths can really see and feel the quality difference.

Designed to professional tool standards and manufactured in the U.S.A., Sully Lockout Tools™ feature tempered steel and stainless steel components, durable plastic tool handles and detailed, illustrated instructions.



### Aable Locksmiths' Inter-Lockit 2

Frank Markisello of Aable Locksmiths, designer of the Inter-Lockit cylinder protector, has now designed a cylinder for hurllite glass doors.

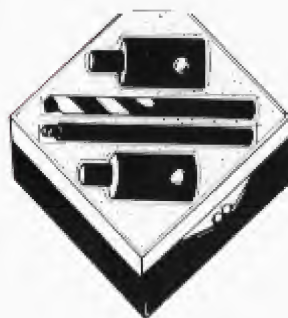
It has a tapped hole on its end, which if needed, can be used in place of the cylinder set screw which in most cases gets stripped or damaged. Once the plate is on, you can use this tapped hole to install a set screw, then tighten the cylinder in place. This new plate is called Inter-Lockit 2.



### ALS's Tubular Lock Breaker Kit

American Locksmith Service, features the ALS 650 tubular lock breaker kit. The tool, designed to break the center core, easily defeats most tubular locks (Ace, Gem, Fort, etc.) eliminating the use of delicate tubular picks.

ALS is offering a special promotional price to reacquaint locksmiths with this product.



### ESP Introduces Mailbox Lock Kit

ESP Corporation, has introduced a versatile service kit, Part No. PTR656-SKIT, to supplement its complete line of original equipment pin tumbler mailbox locks.

The new PT656 service kit contains six counter-clockwise and three clockwise pin-tumbler mailbox locks, five each of 11 different cams, 20 each #ES9 keyblanks, 10 each of 2 mounting clips, and 10 nuts and washers. All parts are organized in a rugged, durable and portable 18-compartment case with secure hinged lid.



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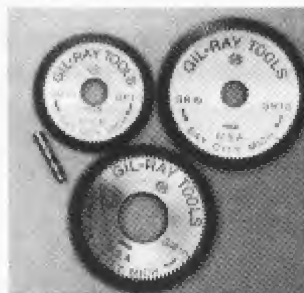


### Gil-Ray's Improved Cutters for Imports

Gil-Ray Tools Inc., has recently added four new cutters to their growing product line.

The GR 80MC is for HPC and Silca One, Two, Three and Nine duplicating machines, and also for many other Italian machines. The GR-B precision cutter is made for Borkey machines. The GR-R precision cutter is for all Rytan machines, and the GR 79 is for Taurus, Bollini, and HK machines.

These premium high speed steel cutters feature improved tooth designs for longer life.



### High-Tech's 1700 Auto Lockout Set

Recently updated, the Model 1700 and Pro 1700 Auto Lockout Set from High Tech Tools now opens the Porsche 928, the 1990 Chevrolet Lumina and the 1989 Rolls Royce Corniche. All current owners of the Model 1700 have been sent updates in the mail with instructions for these vehicles.

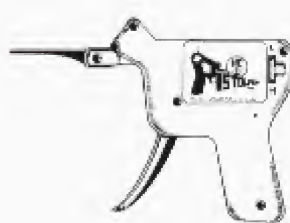
The complete set now consists of 19 tools, a 680 page Auto Lockout Encyclopedia, pocket sized Mini-Manual and a wedge (Pro sets have chrome plated tools, a deluxe carrying case and 2 wedges).



### HPC's New Pistolpick

HPC's new Pistolpick™ has been designed and engineered with the locksmith in mind. This tool will pick pin tumbler and disc tumbler locks with ease. All parts, including the main housing, are black nickel-plated cold rolled steel for protection against rust, and provides an attractive high quality true pistol finish.

Should your Pistolpick™ ever need service, there is no need to send it back to the manufacturer. It can be opened with a screwdriver and all moving parts can be easily replaced.



### Kent-Moore's 8817 Plug Shooter

Now available from Borroughs/Kent-Moore, the BT 8817 Plug Shooter instantly removes the plug core from "squeeze-type" glove box locks on GM, Ford and Chrysler vehicles.

The BT 8817 Plug Shooter is spring-loaded and features a heat treated body with a fluted plastic handle. This prevents any component damage.



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# Silca Key Services

"From their Ohio location, the company will be manufacturing product for stock and shipping finished goods to their distributors. America... look out."

**S**ilca Key Services, Inc. is a new division of a company with a 200 year history. Founded in 1770, Silca began manufacturing keys in the north of Italy. Silca Key Services is the American division of the original Italian manufacturer of keys and key machines.

Twinsburg, OH is the location in which the company has established their headquarters, manufacturing plant and warehouse. From this site, Silca Key Services will be manufacturing product for stock and shipping finished goods to their distributors.

Personnel at headquarters include Stewart Scoble, Managing Director; Dave Powell, General Manager; Barney Goldberg, V.P. of Sales; and Ezio Chies, Technical Director. (See photograph 1.)

"The purpose of Silca Key Services is to present the fine line of Silca keys and key machines to the American market," says Barney Goldberg. Dave Powell adds, "We wanted to offer the wholesaler and the locksmith an alternative source for high quality blanks and key duplicating machinery."

The product line includes an enormous range of key blanks (both regular style and rubber headed) including high security keys, as well as a variety of key machines designed for many purposes. The key blanks feature clear, crisp embossing...typical of Silca quality. The company notes that their manufacturing tolerances are virtually identical to an original blank. And they are quite quick to introduce new key releases as required by the market.

Now available from stock is the full line of 600 different foreign car and domestic car key blanks. The foreign car blanks are available in both standard and rubber head styles. The key heads closely replicate the head of the original key for easy recognition. Plus the complete line of Silca key machines is now in stock at the Ohio facility. In 1990 Silca Key Services will commence manufacturing of U.S. domestic

cylinder blanks.

Key blanks are competitively priced, and are embossed with Silca reference numbers. Ilco and Taylor comparative numbers appear on the box labels. Regular blanks are nickel plated, 50 per box. Rubberheads are packaged 25 per box. Long range planning by the firm calls for comparative numbers to be embossed right on one side of the

key blank. The other side is to be left blank to accept a locksmith stamp.

Stewart Scoble mentions that, "There is more to Silca Key Services than just stocking keys. We are all about providing the market with service. The locksmith needs information on which key fits what lock, and they need after sales service on machines. We are a service oriented key blank company. We want



1. Staff includes (from left to right): Barney Goldberg, V.P. Sales; Ezio Chies, Technical Director; Dave Powell, General Manager; Stewart Scoble, Managing Director.



to be seen as the professional's choice by the locksmith. And we manufacture to OEM tolerances which is why we have such good quality."

Dave Powell follows, "We'll be hanging our hat on quality. The name Silca is synonymous with a blank perfectly engineered to perform. Our product comes as close to an original blank as humanly possible."

Why should the locksmith consider purchasing Silca keys? "Because locksmiths are interested in a quality blank. A locksmith does things with a key that the hardware store key cutter doesn't do. He masterkeys, grandmaster-keys; the locksmith demands excellence. Using an inferior key blank can lead to problems that the locksmith won't tolerate," says Goldberg.

Company executives mention quality as one of the most important factors in their success. But they also stress the level of service they wish to provide their distributors and locksmith end-users. They ship out orders rapidly and accurately so the distributor does not have to wait for product. They want Silca to become the most viable source for product anywhere.

Speed of production is also impor-

tant. Silca Key Services proposes to fax all new key releases to distributors. This will help the wholesaler keep his locksmith customers current. New car keys will usually be released at the time the new vehicle is introduced.

But key blanks are only one part of Silca Key Services. The other big emphasis is on key cutting equipment. The full range of machines is now in stock with a full complement of spare parts. A complete service and repair facility is scheduled to open early next year. The company states that most



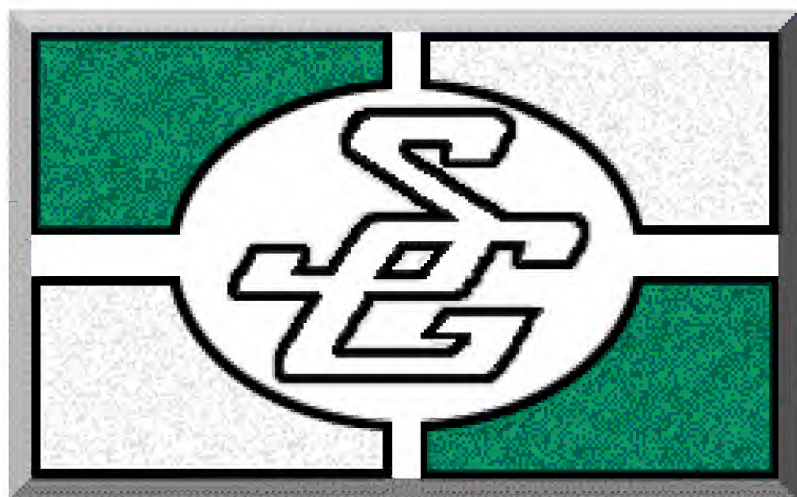
2. The Silca Club milling machine.

machines are accurate to within .0015".

The Club (see photograph 2) is a milling machine designed to duplicate dimple keys, laser keys, and high security keys. Adaptors are released each time a newly released key requires one. Recent information suggests that the Japanese auto lock makers are converting many keys to the laser style. Thus this machine will be especially useful. The machine will cut the Infinity and Lexus keys as examples of new Japanese laser keys. In fact this machine can also be used for cutting the Tibbe key which is used on Merkur, Jaguar, and the Ford Scorpio. Other examples of what the machine will cut include Mercedes, BMW, and Volvo.

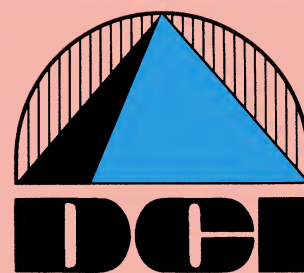
The Bravo USA (see photograph 3) is a high speed, semi-automatic duplicator featuring four way jaws with one shallow side to hold virtually any key in existence. Even keys as small as those for Master 7 padlocks can be easily duplicated. A ¼ HP single speed motor powers the machine, and sealed bushings ensure trouble-free operation. The Bravo USA has an HSS 80MC cutting wheel, and the unit is designed for high accuracy as well as speed.

A special dual shaft assembly per-



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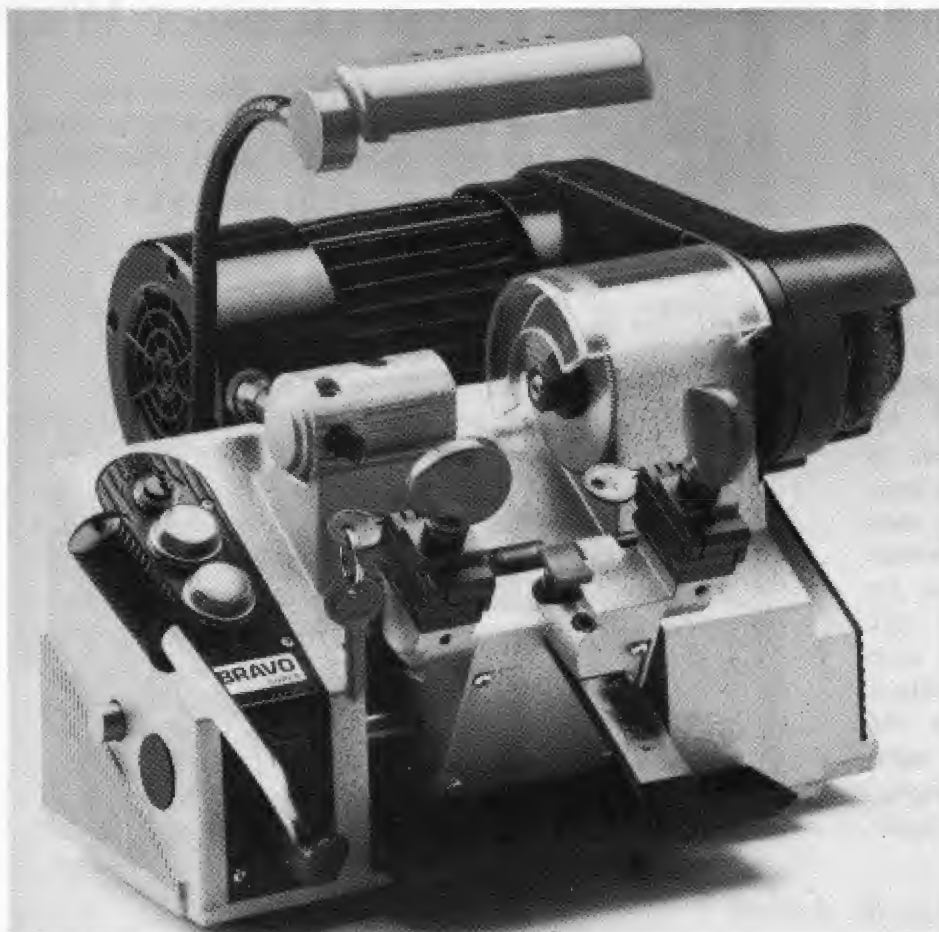
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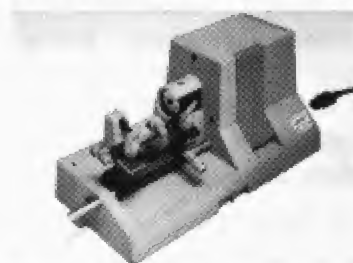


3. The Bravo USA is a fast and precise duplicator.

mits virtually no play of the carriage. Thus, keys can be accurately duplicated to at least the tenth generation. It is easily adjustable, and is aluminum cast using the latest technology to ensure durability.

The Rekord Plus is a mid-priced semi-automatic duplicator with two way jaws to hold almost all keys used in this country. It is tough, durable and accurate. Adaptors are available to duplicate the high security Porsche keys on this machine also.

The Cadet is a semi-automatic duplicator offered at a very economical cost. It uses a revolutionary lever operated design, and can easily be bolted to the bench. It makes an excellent secondary machine or truck mounted machine. The Cadet also features a brush and a chip drawer, weighing in at less than 18 pounds. (See photograph 4.)



4. Silca's Cadet is a very economical, semi-automatic duplicator featuring a revolutionary design.

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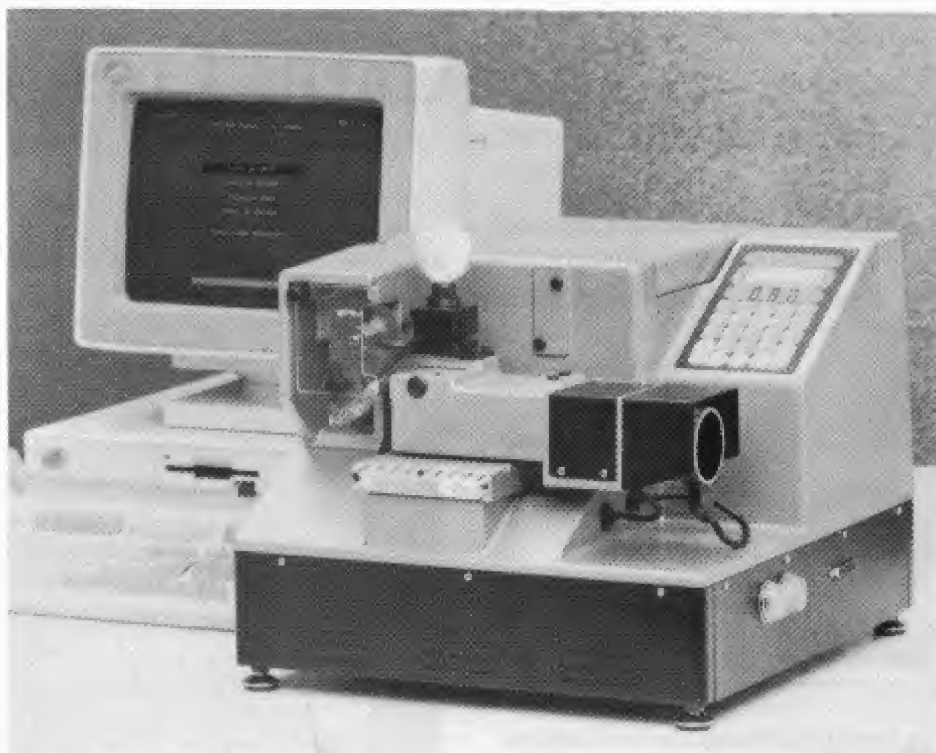
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A line of special application machines is also available from Silca Key Services stock: Poker Plus (automatic duplicator), Crown (all three sizes of tubular keys), GT40 (cuts Tibbe and Abloy). The Lancer (bit keys and flat steel keys) will be available on a special order basis.

Completing the line of well-engineered Silca key machines is the Unicode, a computerized code cutting machine. Scheduled for release in the first part of 1990, the machine allows the user to program in the needed depths and spaces. And the Unicode is compatible with a personal computer. Therefore, software will be available containing complete key cutting information. One of the exciting features of this machine is the laser reader option. With this attachment in place, the laser will "read" the configuration of the original key. It will then duplicate an exact copy. (See photograph 5.)

In summing up the company's goals, Scoble says, "We are here to manufacture and provide the best products and to deliver them with superior service." It is clear that Silca is making an important commitment to the Ameri-



5. The Unicode is a computerized code cutting machine. It can interface with a personal computer.

can market. Their products are available through top U.S. distributors.

For more information contact: Silca

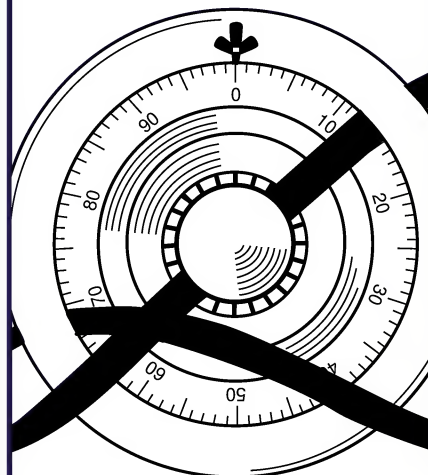
Key Services, 9049 Dutton Dr., Twinsburg, OH 44087, (216) 487-5454, Fax (216) 487-5459. ■

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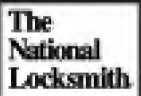
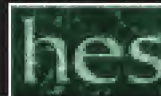
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# The Alarm Lock PG20

"With the alarm installed, the unit will alert you when the door has been opened. There is no wiring needed and installation is simple and easy."



by Dale Libby

Alarm Lock makes a series of alarms in the Pilferguard series. (See photograph 1.) Along with the alarm I received a very good set of instructions, parts, and a template that is used (either one side of it or the other) for all installation circumstances. (See photograph 2.) The instructions are clear and precise and I really had no problems except very minor ones with the installation.

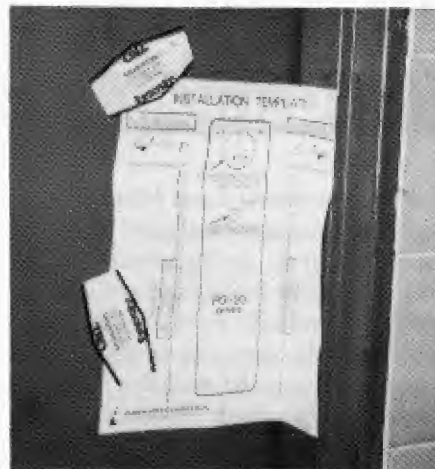
The PG20 is a basic unit with several add-on options. It is operated with a key inside, and can be set up for outside key applications with the addition of a rim-type cylinder. The inside cylinder is a 1 1/4" mortise cylinder (not supplied) with a standard (not A/R) cam mounted as explained in the instructions. I will not go over a step-by-step installation, for it is very easy to follow the fully illustrated instructions, and the unit is easier to install than a deadbolt lock. It mounts on the surface of a door and has a magnet to activate the piercing alarm.

A rim cylinder can be mounted on the outside of the door to allow access but there is *no* locking or bolting of the door. This alarm tells you that the door is opened when the alarm is on. That is all it does.

There is no wiring, but there is clipping of wires or jumpers to set up the different functions of alarm sequencing. (See photograph 3.) The unit operates on a 9-volt battery and there is a low battery warning indicator. The alarm can be set for a 15 second entry/exit grace period, and the siren can be programmed for continuous operation or auto-shut off after two minutes of



1. A fully installed alarm with a decal of the PG20 alarm.



2. Template provided with alarm for installation.

being activated. After the two minute warning, the alarm will reset automatically.

The cover has four 8/32" phillips screws, two to a side. If someone tries to remove these screws, there is a tamperproof switch under the cover which will activate the alarm if the cover is removed when in the "on" position. (See photograph 4.)

Optional remote monitoring is also available by the addition of other magnetic contacts for nearby windows

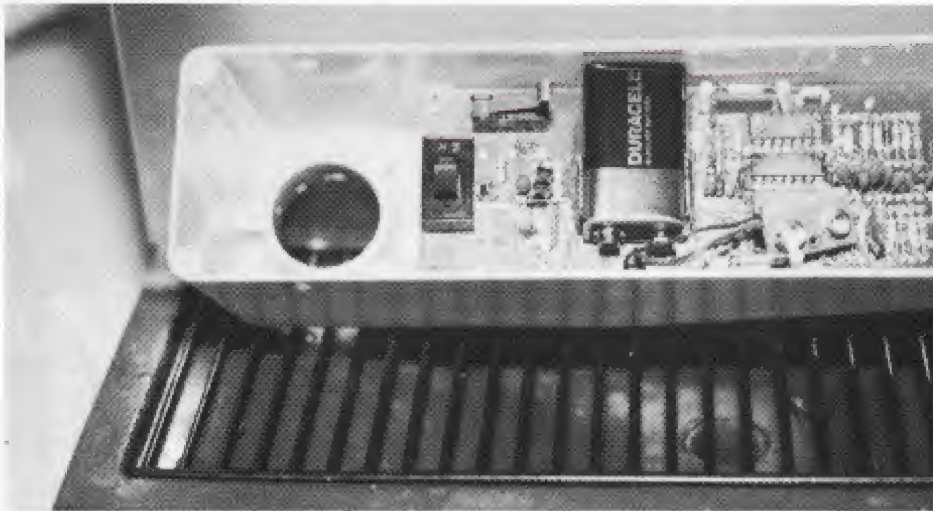


3. Back plate installed on door with activator switch shown. Instructions on plate explain options and jumper wire cutting.

and doors. One of the features that I like best about the unit is its slim profile. It can be mounted on narrow stile aluminum doors as well as sliding glass doors at home or in the office. I think that this unit could break into the home market rather easily as well as the small commercial market.

There are some installation observations that I would like to make; some good, and some not so good.





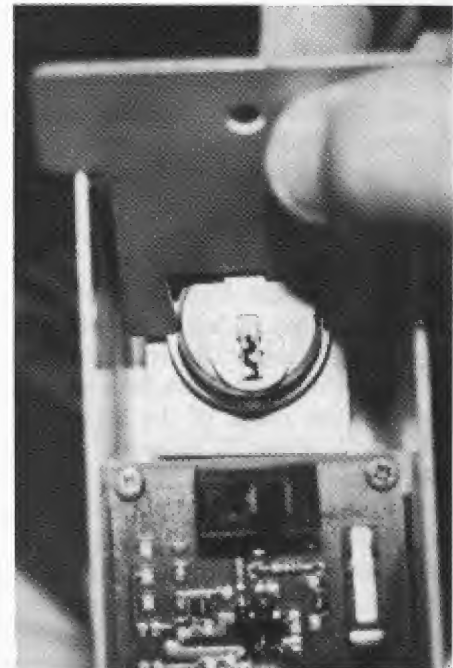
4. Activator switch at 9 o'clock, tamper switch at 12 o'clock and battery at 3 o'clock.

First, and foremost, the instructions and the template for installing the unit are excellent and complete and easy-to-follow. There is even a special wrench included in the installation kit which makes putting the mortise cylinder in the alarm unit a snap. (See photograph 5.) This wrench screws the notched bezel nut onto the cylinder with no problems. It is an excellent addition to the package.

I had some problems with the knock-outs on the base of the unit. There are 6

knock-out plugs for the installation of the pilferguard on the door. For narrow applications, only two holes are recommended. For the average installation, four holes are shown. I had no trouble with two of the plugs, but the other two proved rather troublesome, and I had to drill them out. They would not be moved with a hammer and punch.

The other minor problem is with the installation of the magnetic contact. When installed on a steel frame, it does



5. Special wrench used to screw on the slotted bezel nut to retain 1 1/4" mortise cylinder with standard cam.

not work if it is installed as per template instructions. However, the excellent instructions mention this and I will quote from them:

Note: It is sometimes necessary on steel frame doors to install a non-

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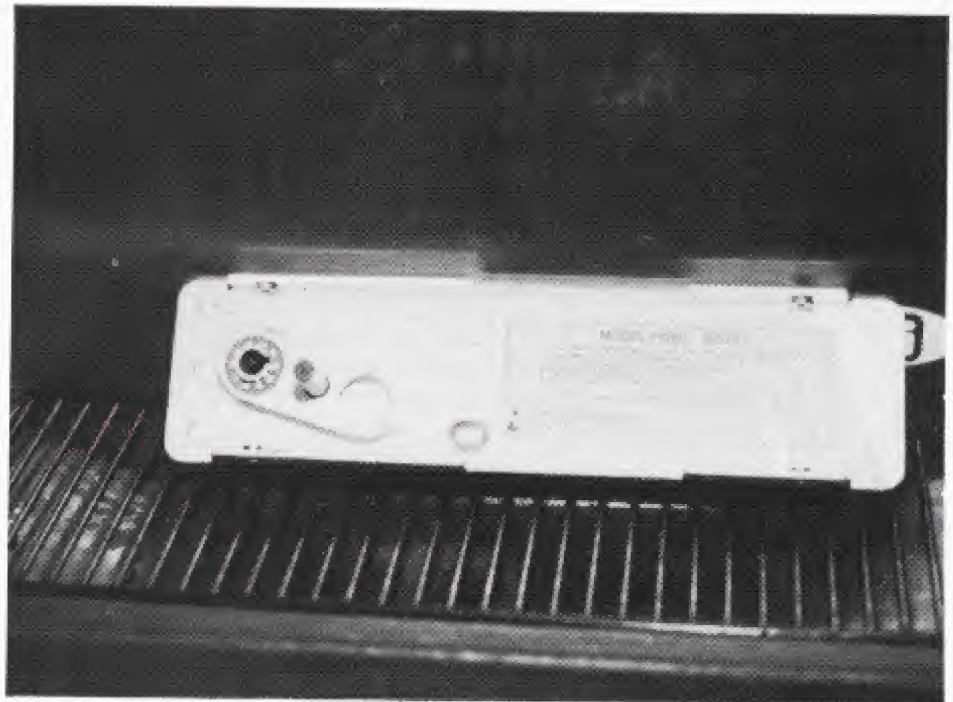
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magnetic shim between the magnetic actuator and the frame. This is done to prevent the steel frame from absorbing the magnet's magnetic field, which could cause a constant or occasional false alarm condition. The shim should be  $\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ "  $\times$   $\frac{1}{8}$ " thick non magnetic material such as plastic, bakelite, or rubber.

This is alright from a theoretical standpoint, but in fact, I would use a "wide-gap" magnetic activator instead of the one supplied. With the wide-gap magnet, the range of the magnet is widened to about 2", instead of the  $\frac{1}{2}$ " of standard magnets. This will help in cold weather conditions, and hot conditions with the warping of doors, the shaking of winds, and any other natural phenomena that can cause false alarms by intermittent conditions.

The way the switch inside the alarm is activated by the mortise cylinder is rather unique. The cylinder cam moves a large bar which is in turn connected to a piece of metal with a hole in it. (See photograph 6.) It works, but there is not a positive "feel" to turning the mortise cylinder. There is no positive click or grabbing to indicate that the unit has been properly activated. You



6. Back plate with activator bar. Large hole fits over activator switch. Bar is activated by inside mortise cylinder cam.

can test the cylinder with the test switch inside, but from the outside, you would have to take it on faith that the alarm was activated.

So, the whole story is template,

install, and then choose the alarm options by clipping the appropriate wires and moving the proper switches. Easy installation, excellent results. ■



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# Yankee Booth Listing

"The Yankee convention offers a wealth of knowledge for the locksmith who wants to learn. First there are many training classes, and then the exhibition."

## Yankee Security Convention Returns to Sturbridge, MA.

The Yankee Security Convention returns this year to the Sheraton Inn in Sturbridge, MA bringing education and product information to the locksmith. They will present 40 different locksmith classes Monday through Friday, November 13-17. In addition, the P.R.P. Test will be available.

Beginning on Friday night, the exhibition of products will run from 7 p.m. until 10 p.m. The Saturday, November 18 exhibition hours will be 9:30 a.m. through 4 p.m. The final day of exhibitions will be Sunday, November 19 from 9:30 a.m. until 3 p.m.

Following is the list of exhibitors at this year's Yankee Security Convention:

Able Locksmiths .....	36
Abloy Security Locks .....	13
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Accredited Lock Supply Co. ....	59-60
Ace Locksmith Co. ....	83-84
Alarm Lock Systems, Inc. ....	45
All Lock Co. Inc. ....	92
A.L.O.A., Inc. ....	61
Ambassador Safe Distributors. ....	9
American Lock & Supply, Inc. ....	117
American Lock Co. ....	69
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Arrow Lock .....	95-96
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Bell's Security Sales, Inc. ....	87
Boston Lock & Safe Co., Inc. ....	37-38
Boyle & Chase, Inc. ....	85
Briggs & Stratton Technologies .....	51
CCL Security Products .....	75
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Commonwealth Lock Co. ....	42-43
Curtis Industries .....	39
Don-Jo Mfg. Inc. ....	65
Door Lock Co., Inc. ....	29
Dugmore & Duncan, Inc. ....	3
Emhart-Hardware Division. ....	22
E.O.W. Products, Inc. ....	82
ESP Corporation .....	41
Falcon Lock Company .....	70
Foley Belsaw Company .....	4-5
Fort Lock Corporation .....	16
Gardall Safe Corporation ....	23-26
A.W. Gifford, Inc. ....	8
Harloc Products Corp. ....	18
Harrison Electronic Systems ....	35
HPC, Inc. ....	67-68
Ilco Unican Corp. ....	10-12
Institutional Locksmiths Association .....	127
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Knight Safe Corp. ....	86
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Lab Security .....	46
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Locksmith Association of Rhode Island .....	126
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Master/Dexter .....	97-98
Maziuk & Co., Inc. ....	7
MDS Incorporated .....	40
Medeco Security Locks, Inc. ....	72

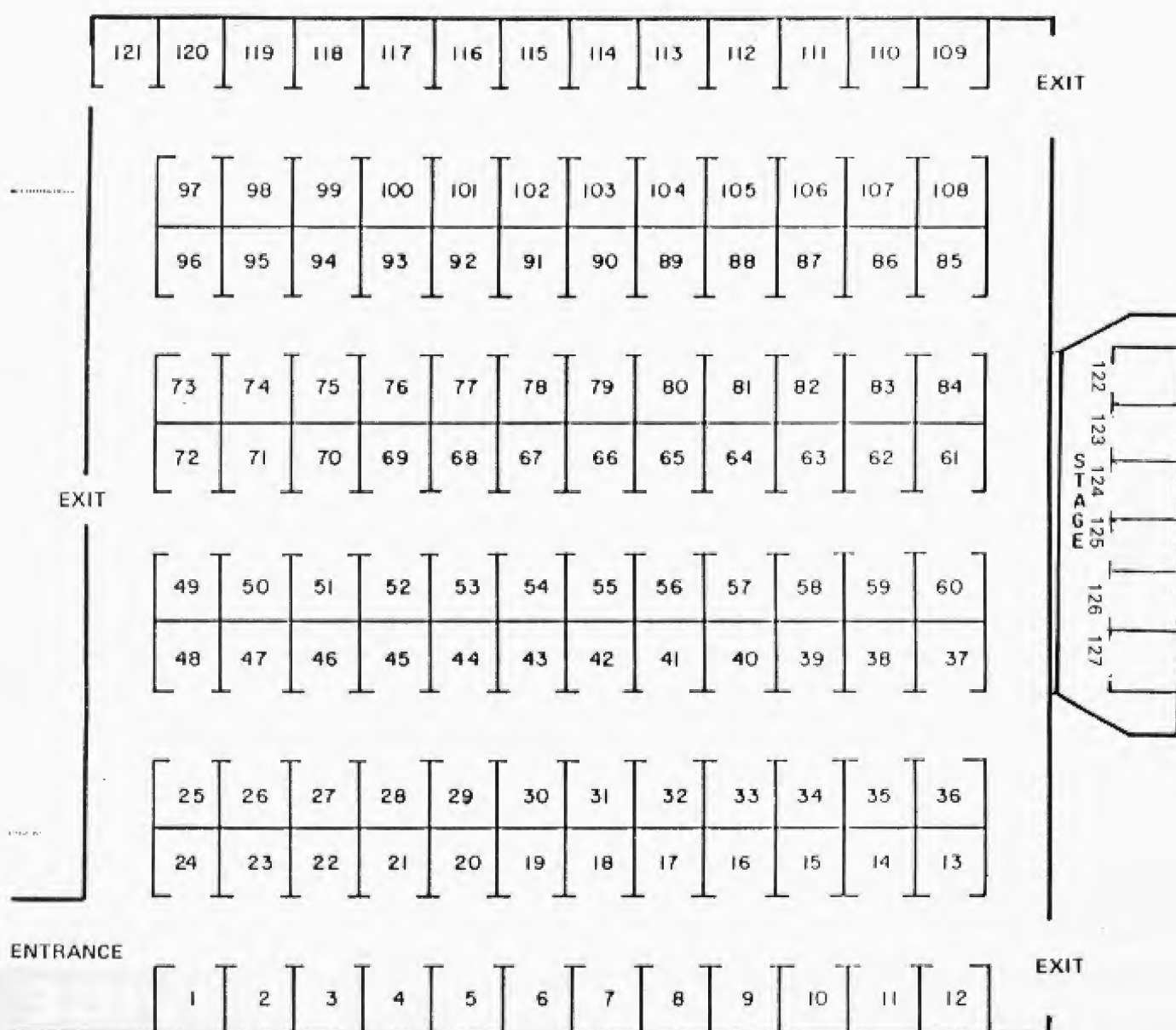
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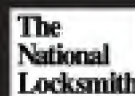
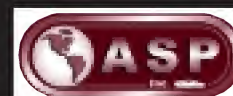
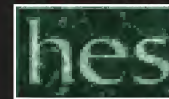


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**November 13-17, 1989**







## Servicing Weiser 'E' Locks

"I remember well the first Weiser lockout that I encountered. In those days, locksmiths didn't share information. It cost me \$30 to have a carpenter repair my damage."



Send your lock and key questions to Jack Roberts, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Jack Roberts

Many of us who didn't pay close attention to learning our ABC's in grade school often have a difficult time with the alphabetic designations used by governmental agencies, clubs, groups, organizations, associations, etc. for identification purposes. There are so many of them that one often needs a guide book at hand to fully interpret an

article or page of instructions.

Lock companies participate in this letter designation confusion with an "A" for one company having an entirely different meaning for another. The letter series used by Weiser to distinguish between standard duty, "A," and heavy duty "E," locksets is typical of the confusion that exists for me in identifying which is what.

The physical appearance of an installed "A," from the outside, is almost identical to that of an installed "E" and, if the door is locked, we have no way of knowing which we have encountered. (I will have to concede that an extremely well trained eye may

detect a slight difference in the concave of the face of the knob, but I have a hard time seeing the knob, much less that slight difference.) If we are servicing a lockout due to a lost key it really doesn't make any difference which letter we are working on; the lock has to be picked open.

I remember well the first Weiser lockout that I encountered. This was at a time when information was not freely shared among locksmiths, and I didn't know enough to share with anyone, anyway. After picking the plug several times I decided that the latch was defective or disconnected and then proceeded to attack the latch area of

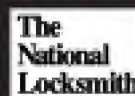
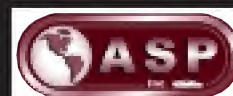
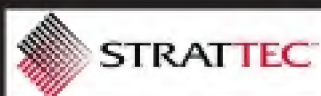
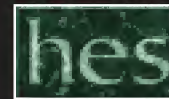


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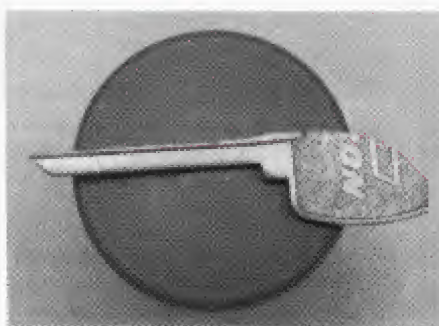


the door and frame. I'll spare you the gory details, but I think I received maybe six or eight dollars for the call and it cost me \$30 for a carpenter to repair my handiwork. That was the point in my career when I decided to study, learn, ask and share.

Many readers may recall a similar experience with Weiser but those new to our profession should learn early on that you can pick and turn a Weiser plug all day long but it won't retract the latch unless the spring-loaded spindle is pushed into position. This requires the use of the "shim pick" (Weiser part #1425) along with a turning wrench and pick.

At the first movement of the plug, the shim pick is inserted deep into the keyway until it contacts the spring-loaded end of the spindle. Push on the shim pick and turn the plug with the tension wrench which should retract the latch. If the latch does not retract, the plug was turned too far or you didn't hold pressure on the shim pick while turning the plug.

I never did master the art of juggling three tools and made my own pusher-turner from a discarded Falcon key. (See photograph 1.) This can be used as



1. Jack's "pusher-turner" tool to be used for Weiser picking.

a tension wrench while picking or the plug can be picked in the usual manner (ever so slightly) and the modified key inserted and turned. Note that the head of the Falcon has been ground down to allow room for the pick to enter the keyway. This works for us; maybe it will work for you.

Anyway, we came here to make a key and now that the door is open the alphabet game starts in determining if we are working on an "A" series or an "E" series. Take a look at the location of the screws in the interior rose. If the screw heads are on each side of the knob, (horizontally) it is an "A" series. (See photograph 2.) If the screws are above and below the knob, (vertically)



2. Screw heads on each side of the knob indicate "A" series.



3. Screws above and below the knob indicate "E" series.

it is an "E." (See photograph 3.) Pretty easy, right?

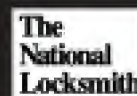
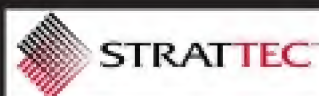
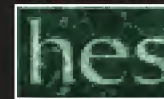
Now, let's look at the difference in the service procedures for the two designs. Generally, an "A" series cylinder can be

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removed from the front of the exterior knob while an "E" series must be disassembled for service or rekeying. (Note here that "generally" means almost all, but there are exceptions. If this is a storeroom or vestibule function the lock will have to be disassembled.)

To remove the cylinder, pick, push and turn as outlined above but continue turning the plug until the top of the keyway is at approximately the four o'clock position on the circumference of the knob. (See photograph 4.) With your pick inserted into the keyway, pull against the pins and the face of the knob, along with the cylinder, will slide right out of the knob. (See photograph 5.) The cylinder can now be disassembled for service.

To service an "A" series that has been removed from the door and the operating key is available, pull on the locking spindle with one hand while inserting the key with the other. (See photograph 6.) Turn to the four o'clock position and pull — the cylinder and face plate will be in your hand for service.

If an "A" series is off the door and the operating key is not available one can follow the same procedures as outlined for an installed lock. Pick the



4. Top of keyway should be picked, pushed, and turned to the four o'clock position for cylinder removal.



5. Face of the knob and cylinder removed.



6. Servicing an "A" series with an operating key available.

plug, (ever so slightly) insert the shim pick or modified key blank, push, turn and remove.

Some people prefer to place the lockset in a vise for this procedure. This is accomplished by pulling the locking spindle to its extreme and clamping it in the vise. (See photograph 7.) With the lockset in this position the plug can be picked, turned to the four o'clock mark and the cylinder removed.



7. Locking spindle clamped in a vise for service.

The visible difference between an "A" and "E" series lockset is shown in photographs eight and nine. If there is no retaining ring on the spindle the cylinder comes out of the front of the knob. If a retaining ring is in place the lock must be disassembled for service.



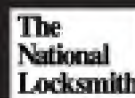
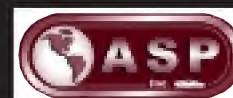
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8. Direct comparison shows the difference between Weiser's "A"...

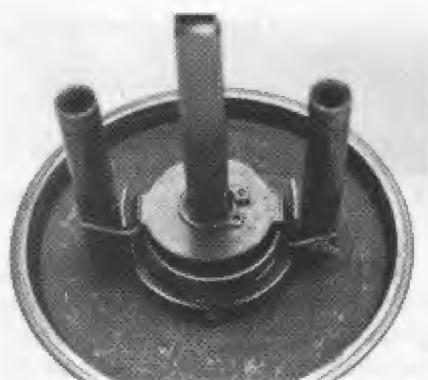
There is a considerable time difference involved in servicing these two models and this should be considered when making a price quotation. In the absence of known factors it may be best to assume that an "E" is being serviced and quote accordingly.

The disassembly of an "E" is rather straightforward. First remove the retaining clip from the latch spindle. (See photograph 10.) (This may be a Waldes ring or a "C" clip.) Lift the return spring assembly off the spindle to reveal a large and a small Waldes ring. Do not remove the small ring! This can only create some reassembly

problems. Remove the large ring, (see photograph 11) and lift the rose, together with the locking assembly off the knob. The plug cap can now be seen



11. Arrow indicates correct ring for removal.



9. ...and "E" series locksets.



10. Removing the retaining clip from the latch spindle.



12. The plug is visible here after the rose and locking assembly have been removed.



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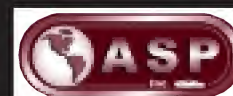
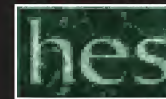
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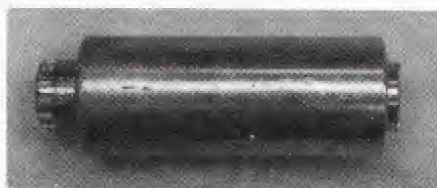


inside the knob spindle. (See photograph 12.)

Although it is possible to remove this cap through the use of a couple of long probes, the Weiser cylinder cap tool, part #WE 1416C (see photograph 13), is essential for quick removal. Insert the tool into the knob spindle, unscrew the cap and remove the tool. (Quite often the cap will remain on the the end of the tool.)

With the cap removed a bar can be seen in the end of the plug. *Note the position of this bar.* It is crosswise to the pins and must be replaced in the same position when reassembling. A notch in the end of the locking spindle fits over this bar and activates the locking mechanism when the plug is turned. You may encounter one of two types of bars. (See photograph 14.) Note that one has a small tab on both ends, the other has a tab on one end. The position of these tabs is critical when reassembling.

With the cap removed, turn the plug with the operating key or by picking. Insert a follower ( a long follower is desirable but not essential) and follow the plug out of the cylinder (and knob) for whatever service is desired. If all the components have been laid out in order



13. Weiser cylinder cap tool.



14. Two types of bars which may be encountered when servicing the "E" series.

of removal, reassembly is pretty much the reverse of disassembly. Insert the plug into the cylinder and turn to the locked position. Now, using a long tweezer, place the small bar into the slots in the end of the plug. The bar must be crosswise to the pins and the little tabs down or towards the front of the knob. If the bar has only one tab it should be on the side opposite the cap retaining pin.

Next, place the cap on the end of the cap tool and screw the cap onto the plug. Bring it up tight and then back off just a smidgen. Insert the key and check for free turning of the plug and removal of the key. Cap adjustments can be made as required. Getting all of this

back together can be a bit frustrating, but it is easy if you just line everything up properly.

There are slots in the Delrin bearing on the knob spindle which must be aligned with the slots in the end of the spindle. Place the rose and locking mechanism on the knob. This requires perfect alignment of the Delrin spacer and the cross bar of the locking assembly with the slot in the end of the locking spindle engaging the bar in the end of the plug. A bit of jiggling may be necessary at this point but when everything is properly aligned the assembly will fall into place and the retaining ring groove in the end of the knob spindle will be clearly visible. Do not attempt to replace the large Waldes ring until you can see this groove; it just won't work that way. Place the return spring assembly on the latch spindle. Replace the retaining ring (clip) and the job is complete.

As we have mentioned, there is a big time difference in servicing an "A" and an "E" and a word to the wise can be a dollar in the pocket. It should be noted here that Weiser has discontinued the "E" series, but there are still a lot of them out there just waiting to trap you.



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# Computerizing The Locksmith

---

"What if I told you that it was possible to add \$1,800 to your checking account within 60 days of being up and running on your new computer system?"

---

by Sally Olson

*The author's business venture is dedicated to the task of helping locksmiths select the best hardware and software to meet their needs. You can write to her in care of this magazine.*

When one wanders through small businesses, it doesn't take long to realize that about eight out of ten businesses are using computers. Computer printed signs trumpet "Summer Hours," computer printed coupons are on the front counters and when you get your bill, it is computer generated.

On the other hand, there is the business world of the professional locksmith. Less than one-third of the approximately 18,000 lock shops in the United States are computerized. I spoke recently with a major distributor of locksmithing software and their estimate was less than 10 percent of the locksmiths in the Midwest are computerized.

This is a surprising percentage, especially when the computerized business is the professional, growing and "seriously seeking cash" business. Does this mean that the professional locksmith is not a serious business person, or is not seriously seeking cash? I doubt that.

It is my belief that until locksmiths can see the dollar value of computerizing their store, they will put it off forever. What if I told you that it was possible to add \$1,800 to your checking account within 60 days of being "up and running" on a computer? How many businesses would jump at the chance to put an extra \$800 in their checking account by the end of the month? Well, about eight out of ten small businesses in the United States are doing just that.

The challenge for you as a locksmith is deciding how valuable your time is. Do you want to spend your time selling and going on more service calls? So just how smart is it then to continue working on manual books, writing, long

tedious grand masterkey systems, looking up old invoices to answer questions, and having keyboard "witchhunts" for lookalike keyblanks? Lock shops that want to grow faster and make more money than their competitors are going to be hardpressed to do any of this without first computerizing. In short, the computerized lock shop has the competitive edge.

In order to know in "dollars and cents" what that competitive edge is worth to you, I am going to list about nine items that will definitely change your profit picture as you computerize. Note the dollar values as they apply to your business. Please note that of the 9 advantages I will be listing, six of them relate directly to accounts receivable (AR), accounts payable (AP), payroll, and inventory.

**Manual Bookkeeping vs. Computerized Bookkeeping.** The time it takes you to do your A/R, A/P and payroll will be cut to one-third. To come up with the *dollar value* savings in your lock shop, decide how much time you currently spend on your manual books during a one month period, what the dollar value of one hour of that time is, and then divide that final figure by three. The difference between the two is your savings per month. If you spend 30 hours a month on your books and your time is worth \$15 per hour, you will see a \$300 a month savings or an extra 20 hours of your time.

**Improved Cash Flow.** Within 60-days of sending out computer printed statements your A/R will drop by about 12.5 percent. Why? Multiply your accounts receivable by 12.5%. How much more money will you get in the bank once you computerize? If your receivables are about \$8,000 you can expect them to drop to \$7,000. The less to collect every month means the more in the bank. By the way, I think this is the best reason there is for

computerizing.

**Fewer Bad Debts.** Because of the "Aged Receivable" report that can be generated any day of the month, you will be really on top of any invoices not paid in 30-days. I estimate the value of fewer bad debts to be about \$50 a month for every \$8,000 in receivables. You must determine your own figure. But remember, your bad debts will go down. Catch a "deadbeat" before they have a chance to charge more.

**Math Errors.** Manual books always present the possibility of math errors. You typically add up your receivables by hand and then take off payments by hand and after about 200 entries in one month, the chances of adding or subtracting wrong just once are pretty good. I figure math errors to be worth \$50 a month simply because you do not have to add or subtract (saving time again too.)

**The Professional Look.** What is the dollar value of sending out a professional looking statement? Locksmiths have a lot of what I call "one-time" accounts. You rekey the doors to someone's new office. You know you may not do work for them again for two or three years. In my experience as a full-charge bookkeeper I always found that management dragged their feet paying those "one-time" bills, especially if they are not computer generated. A dated invoice attached to a computerized statement has the best chance of being paid within 30-days.

With all this time you are saving, you will be surprised how you begin to think in terms of advertising, printing price lists, and counter coupons. All that is required is an inexpensive graphic arts program. To both the professional look and improved advertising I say your business will grow five percent faster that it is now. If your gross sales are \$100,000 a year that would be





worth about \$416 a month.

**You take control of your inventory** and have plenty of time to search for the best buy. The initial computerized inventory that locksmiths should aim for are their 100 or 150 items in the store that move the fastest, such as mortise cylinders, knoblocks, or deadbolts. I say this because setting up inventory on a computer and learning to deal with it even on a weekly basis is not easy. The main idea is to streamline and control it, not list it to death. I would not include any small parts. They can be visually inventoried. You will find it much easier to place orders because you know the exact number of items sold. I am not putting a dollar value on this since inventory changes are usual noted on the books once every year. I also feel that if there wasn't any dollar value change, the items on the shelf after one year would be moving with a faster cash turnover than before.

**Don't Waste Time Writing Masterkey Systems.** There is software out there made especially for locksmiths.

Even the swiftest locksmith who manually writes a grand masterkey system with only two master keys and 50 changes per master in twenty minutes will find that the computer will do it within 3-minutes including printing. HPCSoft, a software I am familiar with, will then proceed to list your pinning for you and tell you the total number of pins you will need for each job. That, I would think is worth \$30 of your time each month.

Now for the last item: finding "hard-to-find" keyblanks on the keyboard. We all know "L1" written on a keyblank means we are looking for a "Lockwood" keyblank, but what does "HL25" mean? On a computer, items like this are put into a data base organization. That means that you can generally type in "HL25" and it will search all columns of information (in this case manufacturers) for that code. Also, you can usually enter "HL?" and it will search for anything with "HL" and show it to you within 3 or 4 seconds. I say this feature is worth \$20 in time and frustration per month.

If you add up all the dollars you save that first month of being computerized

in a business that grosses about \$100,000 a year with an A/R of about \$8,000 and couple of other software programs it comes up to: \$1,866 in dollar value savings.

Each month after the first you should see about \$866 a month (after your initial cash flow drop). Now, I bet you can see why so many businesses are running out and buying computers.

There is no question in my mind that every lock shop in this country should be computerized. And now, maybe you can see in plain old "dollars and good sense" why I say that. The real hidden asset of using a computer in your lock shop is the way you learn to budget your time toward the money-making projects, and spend as little time as possible on nonprofitable ventures. ■

# Major

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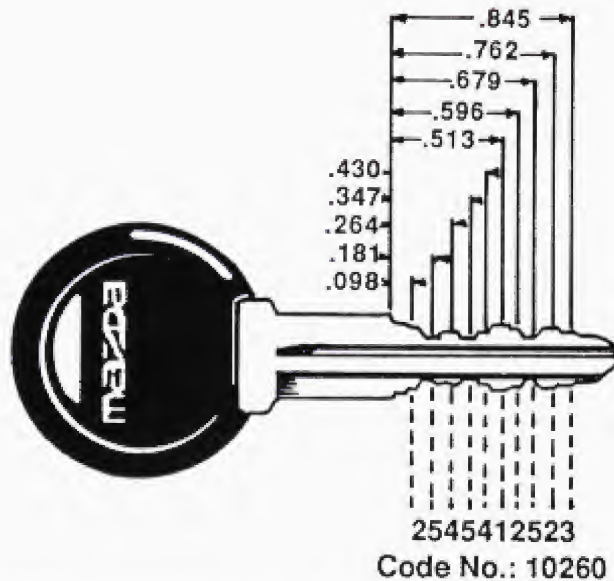
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10100-12099



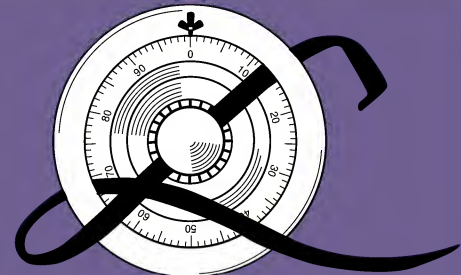
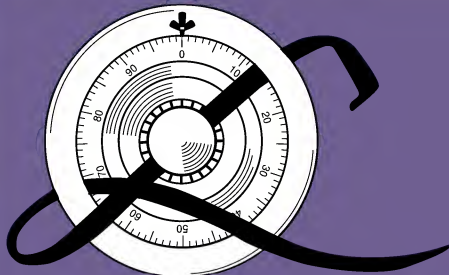
## DEPTHS

0 —	5 — 0.250
1 — 0.312	6 —
2 — 0.297	7 —
3 — 0.281	8 —
4 — 0.265	9 —

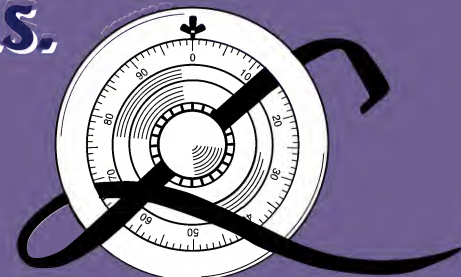
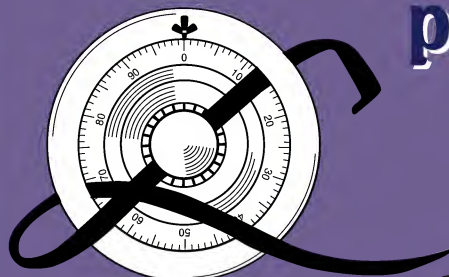
## KEYWAYS

Silca	MAZ13
Taylor	XI88
Ilco	MZ13
Curtis	MZ16

**Special Information:** This key, unlike previous Mazda keys is cut using the shoulder gauge. Make sure that both sides of the key are the same. Master/Valet keys are made with different precut tip cuts. Master=4 tip, Valet=2 tip.



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 Codemax No. **4 - 253**

10100	10150	10200	10250	10300
00 1214521232	50 4325214123	00 5454123434	50 4523214325	00 2125254541
01 2343212141	51 4345252541	01 4121434525	51 4521412125	01 3234541254
02 2521452323	52 4325452543	02 4345432325	52 3232125452	02 1452143254
03 4141254143	53 2123414141	03 1254325252	53 2125234143	03 4123434145
04 4325454121	54 4521234123	04 5232343254	54 1212543212	04 5252143412
05 4341252125	55 4325432341	05 2345452321	55 2121214543	05 5234345252
06 2125432523	56 2541232341	06 5232145452	56 2543212325	06 3254543232
07 3232145232	57 1232343412	07 4145412541	57 1212541252	07 5412121254
08 2141412523	58 1254521434	08 1452121234	58 3454345252	08 2321454145
09 5452145232	59 1232525454	09 2541434321	59 1414345234	09 5432343212
10 3434325212	60 2545232143	10 1452323234	60 2545412523	10 1452345452
11 4341234521	61 4345252143	11 4323452545	61 2145214345	11 4325234345
12 5454325214	62 3214525412	12 2145414521	62 5232121434	12 4321434345
13 5232123452	63 1412541214	13 2125214145	63 1434321234	13 1454545234
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22 3452341252	72 2143414321	22 2541234543	72 5254125234	22 3414545252
23 4323234123	73 2321234341	23 4321212345	73 1452341232	23 2545454121
24 3212341234	74 2325254523	24 4341214325	74 3232143212	24 1232523454
25 5432145412	75 1432321254	25 2325254141	75 1412543412	25 3452543232
26 4341412143	76 5452325412	26 1432343454	76 1254341452	26 2123234141
27 3254141452	77 1212143452	27 4125234141	77 5214521252	27 5452343412
28 3252343214	78 1234341452	28 4541234145	78 1432525254	28 1254125212
29 2325214545	79 3454323454	29 3452523454	79 5212143412	29 2523234345
30 2345214321	80 2521434141	30 3232345254	80 2523454141	30 4123454323
31 1234343214	81 2341412521	31 3412121234	81 2143212125	31 4325434543
32 4143212343	82 2345412141	32 3434541214	82 2521234525	32 2123452341
33 5454125254	83 2541454523	33 3452325452	83 1212345432	33 3234321432
34 4145234325	84 1234123234	34 3214121232	84 4141452145	34 2523254345
35 1435321454	85 2541232545	35 2543452543	85 4325412125	35 3432243424
36 5452523412	86 4321212145	36 5232525452	86 5452325214	36 3234123454
37 4145452323	87 2145234341	37 1414541232	87 3254525212	37 5434121234
38 5412321234	88 4545232323	38 3454541234	88 3454123454	38 2525452143
39 5432323452	89 1434125432	39 2543412141	89 4145432141	39 5214143452
40 2543414521	90 3254321214	40 2325254323	90 1434145232	40 2341414525
41 1432143232	91 1234543452	41 1452341454	91 2341254541	41 3212545232
42 1454321212	92 2452145252	42 3254343432	92 4545412525	42 3254345234
43 4143214321	93 3254145412	43 2321214145	93 2145412143	43 4543234545
44 1432145432	94 4543432345	44 3434143252	94 2121452543	44 4523254521
45 4545452141	95 1414543212	45 3412523432	95 5412343232	45 2525414323
46 4323254125	96 5432541232	46 4345254143	96 5412321414	46 1214123412
47 3234325214	97 1214321432	47 4523412141	97 4525454123	47 3452321414
48 3252343452	98 5252341254	48 1412521254	98 1252141252	48 4541214323
49 1432325412	99 4121412345	49 3232123434	99 5432543452	49 5214543412





# 10100-12099 MAZDA

## Keyblanks:

Taylor X188  
 Silca MZ13  
 Curtis MZ-16

## Code Machines:

1200 CM No. XF68  
 Codemax No. 4 - 253

10350	10400	10450	10500	10550
50 2145432125	00 1432125432	50 5214145432	00 1452323412	50 2143212521
51 3212525414	01 1214325432	51 4323454341	01 5214143234	51 5452125432
52 4523232341	02 4141452523	52 2343234125	02 4121254523	52 5414341252
53 2523434141	03 2541452125	53 4141432141	03 1232141234	53 4121414541
54 2123234321	04 4323234545	54 2341432123	04 5212341254	54 2525434345
55 1434541232	05 4343234541	55 2141232523	05 1454525414	55 2323414523
56 1452345252	06 3432523234	56 2125412525	06 4145412325	56 3432143234
57 1252545414	07 5414545232	57 4521414123	07 2545434521	57 3434321452
58 4323452145	08 5234321254	58 5434341212	08 2341234325	58 4545252323
59 4345432541	09 3214123434	59 4545254341	09 2321432121	59 3234341432
60 1232541454	10 3434523232	60 3214141452	10 5214325232	60 2125414143
61 4145432543	11 2125454125	61 4345412543	11 5212541432	61 3234523414
62 3432521412	12 5252145234	62 5454321252	12 2123234543	62 3452145454
63 2325234341	13 1412543234	63 2545432321	13 5212141432	63 2141414523
64 4325452123	14 2343412145	64 4525212143	14 4145234523	64 2121234143
65 3214545254	15 2121434541	65 2523214541	15 4543212323	65 1234141232
66 5432343414	16 4345232145	66 1452123434	16 1452123254	66 2521432525
67 3452341434	17 4321432543	67 2143232123	17 2123434541	67 4343232145
68 1412321432	18 2123454123	68 3434341234	18 4123412543	68 4325254543
69 3234521434	19 2523452523	69 3452525214	19 1232143254	69 2541214545
70 4141254321	20 1234145452	70 2523412125	20 3234145234	70 2123254123
71 1212145252	21 4341234341	71 4323254323	21 3414321234	71 2125454341
72 4123234121	22 1414143252	72 2125214321	22 2145234541	72 5234521432
73 5414541234	23 3412541412	73 4523454325	23 4343212523	73 5452541414
74 2323412523	24 2321452321	74 2125432143	24 5454521412	74 4125454345
75 4543412325	25 3434145252	75 2323414325	25 2325432525	75 3212343434
76 5452341412	26 2141412345	76 2343214143	26 4143452545	76 3432145254
77 1434521452	27 2145212521	77 4321414543	27 4541234523	77 1254141214
78 4521212545	28 4345212143	78 4345452143	28 2321434521	78 3452325254
79 2325214323	29 2143214141	79 1454141212	29 2543254543	79 2121412325
80 5414523254	30 4345214541	80 3432123454	30 2141432143	80 2145252521
81 4545252145	31 3214145452	81 4341432523	31 2123452521	81 4543212121
82 2125414521	32 4323232143	82 3212143252	32 4125412321	82 2143252123
83 5252141414	33 1414525432	83 2341214341	33 5252345232	83 4341254523
84 1414323252	34 5432525214	84 5412523452	34 4525414545	84 3414323232
85 1254321434	35 5414521414	85 1232341252	35 5214521452	85 2525454145
86 1254525412	36 1234121252	86 4545212145	36 4325434325	86 3254141254
87 5254321414	37 4125414145	87 1434341214	37 4141234121	87 2143254541
88 4541252123	38 5412343454	88 4123252543	38 2143214525	88 2143252525
89 4541212521	39 3252345434	89 3432341452	39 4545234543	89 4343412545
90 3414521434	40 1232143434	90 4543254523	40 5252523432	90 4543412523
91 3234123214	41 5252341414	91 3434525432	41 1214541412	91 3214523252
92 3452343234	42 5452121214	92 4143452143	42 3214141234	92 4525234123
93 3412325434	43 2321234543	93 2545214323	43 1434543212	93 2323254121
94 2145454521	44 5414121234	94 2345432545	44 3254323452	94 4125412145
95 5234145214	45 2341432325	95 3212123412	45 4321234345	95 1252121434
96 3412141454	46 4143234123	96 5232345212	46 4345452521	96 4525214525
97 5432545232	47 2521452145	97 3212145412	47 4123234341	97 3452323452
98 5254125454	48 3254545412	98 1434525414	48 2345212545	98 4121434121
99 3234345232	49 5412345414	99 1434325232	49 2345252121	99 5234125414





# 10100-12099 MAZDA

**Keyblanks:**

Taylor X188  
 Silca MZ13  
 Curtis MZ-16

**Code Machines:**

1200 CM No. XF68  
 Codemax No. 4 - 253

10600	10650	10700	10750	10800
00 4543234143	50 3454525434	00 4545234343	50 5454121252	00 2321434143
01 2523432341	51 4521454321	01 5254341412	51 1512545252	01 5212121452
02 4141232541	52 4125254521	02 5254321254	52 1234125214	02 1414321232
03 2123214523	53 2341234123	03 1452523452	53 4525434525	03 5232143214
04 5252343254	54 4323412123	04 4145214341	54 5234325254	04 2145434325
05 2325412323	55 4541214145	05 4345254343	55 2541232121	05 3252143214
06 2323434125	56 4523212143	06 5434523412	56 2545214523	06 3432545254
07 2523434341	57 3454145232	07 5254345452	57 4541412545	07 5434321434
08 5234341412	58 3254521452	08 2143454125	58 5454523412	08 4121454345
09 5254123412	59 1252545214	09 2343434525	59 2323434525	09 2545454323
10 3432321454	60 2321214545	10 1252343432	60 3452545234	10 1212541414
11 4125234521	61 4121234343	11 2141432321	61 2341254343	11 1432541254
12 4521214521	62 2145432343	12 3232141414	62 4341412543	12 4545212543
13 1214321212	63 5254325454	13 4341214125	63 1432143432	13 4121252143
14 4143234341	64 4521252145	14 2543432341	64 4323214341	14 3252521434
15 4321254521	65 5452345414	15 3254541254	65 2143432325	15 2323454343
16 5432545414	66 1254321232	16 1252321454	66 4145254521	16 5212541232
17 5214321454	67 2325434521	17 5234343412	67 2543234121	17 1432541432
18 2543414123	68 2343452525	18 1234325454	68 3254143254	18 1454521454
19 4125212543	69 2343432121	19 4325414543	69 4125454543	19 4525212545
20 3452525412	70 4321214125	20 4143214125	70 5452145434	20 1214543232
21 4545452325	71 1412345232	21 1454121412	71 2121424521	21 4145252345
22 3214521234	72 2145254121	22 2541212341	72 2323214141	22 3212323412
23 2521434321	73 4325252543	23 4341232141	73 3254541412	23 5232341212
24 3212521412	74 1214345254	24 4321414125	74 5212545452	24 4343252325
25 5234545234	75 2345414123	25 3454545232	75 4123414541	25 5214543254
26 3452343414	76 5432121454	26 1252345214	76 1412525412	26 2345212121
27 3452141412	77 2541254525	27 5412523254	77 3452123452	27 1434123452
28 5234143452	78 5212343452	28 3414523412	78 1452541432	28 2325234125
29 5414145232	79 5454523214	29 3412541254	79 4545432345	29 4521232145
30 3232523412	80 2523414543	30 2543232321	80 2521412343	30 1234325234
31 1234523432	81 3234523254	31 5234541452	81 4521214123	31 5434325414
32 2143432541	82 5452521234	32 3412145414	82 2343252541	32 4325454523
33 4325412545	83 3252523414	33 5234341252	83 4325254343	33 5434321232
34 2341232323	84 5434521254	34 3454121214	84 4321234521	34 2545452123
35 3412341232	85 3234125412	35 5214341254	85 1454525234	35 2321254545
36 2345214545	86 1252343212	36 2141252341	86 4525412521	36 5432543232
37 1434343252	87 2345414325	37 2145232123	87 2323214543	37 5432123414
38 2541434525	88 1252523434	38 5432325214	88 3212141452	38 4523432141
39 4145432341	89 4543252523	39 5434125254	89 4141432541	39 2525214325
40 5414321254	90 4145212525	40 4143212545	90 5434123412	40 4143232545
41 1412523454	91 1454125432	41 4523234145	91 1254523454	41 1454121254
42 2341414325	92 1252143414	42 3254125214	92 5414525214	42 1214345412
43 1212321412	93 3214345232	43 3454543212	93 3254521212	43 5412521214
44 3252141452	94 5454541252	44 4325252145	94 4521432145	44 4141214345
45 2321412521	95 3252325432	45 4143412543	95 2545214125	45 5414121432
46 4125414341	96 2541214143	46 1214343214	96 4125212145	46 1414123414
47 2145234143	97 2125412121	47 2325434143	97 4341452345	47 4123214345
48 2121254525	98 5214141432	48 1252341432	98 2325454541	48 1214343412
49 3434123212	99 4521454523	49 3452521452	99 1254541212	49 2341414125





# 10100-12099 MAZDA

## Keyblanks:

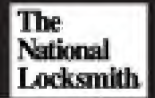
Taylor      X188  
 Silca        MZ13  
 Curtis       MZ-16

## Code Machines:

1200 CM No.      XF68  
 Codemax No.      4 - 253

10850	10900	10950	11000	11050
50 5234525214	00 4323214545	50 1254323434	00 2145252341	50 4523254143
51 2541412323	01 3214145212	51 4145232125	01 4521432523	51 5412543252
52 5412525452	02 3432121432	52 5452141432	02 3452141214	52 2121254121
53 5412545234	03 4543252345	53 5254345212	03 3252125454	53 1212343214
54 3412125412	04 3214325454	54 5234121412	04 1232321414	54 4321432345
55 5454345254	05 4123254325	55 5254541214	05 3412345254	55 2325414523
56 1434323452	06 4123232345	56 3252525432	06 4125432543	56 2521454141
57 5432541412	07 4123212145	57 2341214123	07 4343252141	57 1454345232
58 2345434523	08 2345434321	58 1234321412	08 5412341454	58 2341232521
59 1454543234	09 2541214321	59 2525434145	09 3212541452	59 2521234325
60 1214125432	10 1454123234	60 1432545452	10 1414325414	60 4525452145
61 1432323454	11 4323452321	61 5212543432	11 4325432541	61 2345234345
62 2341412321	12 4545214121	62 2143452141	12 1212523434	62 1254345412
63 4123432525	13 2523412343	63 4523434345	13 4323414343	63 4341214521
64 4545214543	14 3212345212	64 1452145412	14 2541454325	64 4345234323
65 2141254543	15 1432343214	65 1452541234	15 2143232525	65 3212341432
66 5252321434	16 1414125234	66 2345432121	16 3454521414	66 2543232141
67 1432545234	17 2341214543	67 2543454525	17 4523432321	67 3254523232
68 2341412123	18 2321412145	68 5232143454	18 1234521214	68 4141234541
69 1214323412	19 3234521212	69 4123412325	19 1434121434	69 2341452123
70 3454325452	20 2345234521	70 5212545212	20 3212325432	70 1232145252
71 2141232145	21 2123214321	71 2543452325	21 4121214341	71 1232541214
72 3432141214	22 3452143432	72 2525234545	22 4543252121	72 2525234145
73 4521412341	23 3255123212	73 4525234525	23 4343214521	73 4321232343
74 2543212143	24 1212143234	74 5434545212	24 3252543454	74 2325412541
75 3232325454	25 3214545452	75 3454523452	25 5254123232	75 3234543252
76 1432523434	26 4523412321	76 1452543432	26 3212343212	76 3434125234
77 4521414545	27 1254325412	77 5414345252	27 3234141432	77 3232321412
78 2323254321	28 5452123432	78 4121432141	28 5254523212	78 3414121252
79 4523432545	29 3254121432	79 2543254345	29 4143412143	79 3254345432
80 4545234121	30 2123434121	80 1252541412	30 3434523454	80 5214345432
81 1414521412	31 1234121414	81 1232141434	31 2125452521	81 3254321452
82 2345214123	32 4525412343	82 5414125434	32 4325214541	82 2545232343
83 4121452121	33 1452141234	83 2123254341	33 1432543434	83 1234541432
84 4143254525	34 3254325234	84 2145454325	34 2343252321	84 2523234125
85 2343232523	35 2145254541	85 4123452345	35 5412145454	85 4523254343
86 3432345214	36 1214523454	86 3452125254	36 2523452121	86 3254325414
87 1412325452	37 2545412125	87 1414321434	37 2341212325	87 5254141234
88 2121452123	38 2325452141	88 3412125254	38 2143212321	88 4521212143
89 1254121452	39 1412345454	89 4345252321	39 4121454545	89 4143232325
90 4321234121	40 2141452541	90 1234345452	40 4523454143	90 2545234125
91 1412321254	41 3452545412	91 1432341412	41 4141254545	91 5452125234
92 5254141432	42 3412323234	92 4525434121	42 2541454123	92 1432543212
93 2523414345	43 1252521412	93 2521454325	43 4341254123	93 5212123434
94 2323452323	44 4145212325	94 3212141232	44 4523214525	94 5234323454
95 4125452121	45 2541254341	95 1434121254	45 1232323412	95 2325452325
96 1452145212	46 1254523252	96 4323412341	46 2545254125	96 2121454323
97 1234125434	47 2545252325	97 4341212343	47 5454145214	97 1412545434
98 4523234325	48 5254121212	98 2141212345	48 4545432123	98 5214123454
99 4525412143	49 2141214541	99 3414325434	49 4543452521	99 4541412145





# 10100-12099 MAZDA

## Keyblanks:

Taylor X188  
 Silca MZ13  
 Curtis MZ-16

## Code Machines:

1200 CM No. XF68  
 Codemax No. 4 - 253

11100	11150	11200	11250	11300
00 4341232325	50 1254545432	00 4141432343	50 4125434321	00 5234125232
01 4143232143	51 2343254143	01 3414141252	51 1414523232	01 2343252145
02 2325234523	52 2343232121	02 4523452343	52 5414323434	02 3232345432
03 2145212125	53 4141252523	03 4341234125	53 5454141232	03 5432325452
04 1212545412	54 3434121452	04 5414343234	54 3214541432	04 4523434123
05 2543434125	55 4321212541	05 2545252125	55 3212523414	05 5452121412
06 3414325254	56 4525212341	06 3432121234	56 1434545232	06 4525414345
07 1452343252	57 1234545412	07 4121452343	57 2143452341	07 1232343252
08 1232325414	58 1252541252	08 2321214323	58 4521252345	08 2545212541
09 3234545432	59 1212545214	09 4125214125	59 3412525254	09 5414521214
10 2545212321	60 5234141254	10 5452143452	60 3434543214	10 2545412323
11 2345412321	61 4141212323	11 2523414145	61 1434141212	11 2523454325
12 5434323212	62 3214323414	12 5252541454	62 4325212541	12 3252541232
13 4345412121	63 5414323214	13 1434525254	63 5252123414	13 5254523432
14 4125254325	64 4323454521	14 4123412121	64 3454123214	14 2143454521
15 4323432125	65 2321454343	15 1432121254	65 5234541234	15 4525432521
16 4125454141	66 1434345254	16 3432341214	66 5214523214	16 4341412343
17 4143432525	67 2343454123	17 3434521232	67 2345232543	17 5214123212
18 4525452345	68 5232341434	18 2125452125	68 3414143214	18 2521432125
19 1232341432	69 2525432323	19 5424525424	69 4321452523	19 4523414525
20 4321452143	70 5432321432	20 2143412323	70 5452345254	20 2345234123
21 4121254145	71 1452525434	21 2523454321	71 1252325434	21 2325452541
22 1412521414	72 2543214543	22 2523234521	72 5452543252	22 2545434323
23 4343234145	73 3254123452	23 3254343214	73 3254323212	23 5332125434
24 4145254145	74 2543432143	24 4325254121	74 3452143212	24 5454323432
25 3414345212	75 3434345234	25 4545212323	75 1432323214	25 2123412145
26 2145232341	76 2123412345	26 1414123232	76 2521412143	26 4525232545
27 2523452325	77 4543412121	27 3252123412	77 4343254141	27 5452143232
28 3434325412	78 3214523432	28 2521412541	78 2125254123	28 4141232343
29 5412125454	79 4145214145	29 5214341432	79 3412343234	29 1214145252
30 5234121214	80 1432125254	30 4541232123	80 2523214323	30 1454523234
31 5412325414	81 2141214343	31 5252145432	81 2341452543	31 3232525414
32 1254123414	82 3432525434	32 3214343452	82 4521434125	32 1412143212
33 5454143234	83 2341212543	33 2321432325	83 2341452321	33 3214325212
34 4541254521	84 2321412321	34 2523434523	84 2545452341	34 4141252145
35 5412525234	85 5434141252	35 1254345214	85 5454123254	35 4145232325
36 4343212145	86 3434121232	36 5432321234	86 1234525234	36 2125412341
37 4141412541	87 5454321432	37 3412143214	87 3252541434	37 3234121212
38 3432541452	88 4523452143	38 4523452541	88 4125434541	38 4323434543
39 4123254141	89 2323432523	39 2323454543	89 4323432543	39 1252145414
40 2121234541	90 3434521454	40 2525414125	90 3234321214	40 5434523252
41 4521414325	91 3434123414	41 2343412521	91 3252341212	41 2521214321
42 4123454121	92 4143254341	42 3452521254	92 4323412525	42 2345452523
43 2341432521	93 4345214143	43 5214125414	93 4543254343	43 5232343452
44 3454325254	94 2541432345	44 2541434123	94 3454121434	44 2141234345
45 2321452525	95 1454145254	45 1252543412	95 4323252341	45 4525214343
46 4123454523	96 1454343234	46 4321414343	96 4125254125	46 4525432141
47 1254541452	97 4541232543	47 2523214143	97 3254145252	47 5232323414
48 5412123414	98 4321214343	48 4325432123	98 1452325454	48 1414521212
49 4121432545	99 4323212345	49 4123214121	99 2125212345	49 4143452323





# 10100-12099 MAZDA

## Keyblanks:

Taylor X188  
 Silca MZ13  
 Curtis MZ-16

## Code Machines:

1200 CM No. XF68  
 Codemax No. 4 - 253

11350	11400	11450	11500	11550
50 2345232345	00 4541412325	50 5232543414	00 3254143412	50 5234345432
51 3234325432	01 3214521432	51 4343452125	01 2143432145	51 3432141432
52 3254125452	02 1234323214	52 4545232525	02 3252545432	52 5414123452
53 2145412521	03 4541232345	53 4143252125	03 2125434343	53 2325432321
54 5434343212	04 2141432543	54 4321452341	04 1454323232	54 3232545212
55 1434523434	05 3454323214	55 4325452323	05 5234143212	55 1234543254
56 2541412525	06 2145454125	56 5432525412	06 5214141254	56 2343452145
57 2343434123	07 5214545234	57 2521254541	07 2545234321	57 1452545434
58 3232145454	08 2521432343	58 4525252141	08 2521414145	58 1434323254
59 4521434545	09 4543232125	59 4525254345	09 4525434323	59 2545234525
60 3412121432	10 3454125414	60 5432141212	10 4521412543	60 4541252545
61 5252141232	11 4523414123	61 4325414141	11 1234345212	61 5212521432
62 2341254145	12 3414343252	62 3234121454	12 2525414525	62 1412343432
63 4343252521	13 4341252543	63 4525252341	13 2541252521	63 2543254123
64 3414341232	14 1412325214	64 3232545432	14 1232123432	64 3214323254
65 1234523214	15 2143434523	65 4321254125	15 3412525434	65 5452323414
66 3412523214	16 4345452343	66 4343254545	16 5232141252	66 5252543452
67 1412143434	17 3452121432	67 4145232523	17 3414543214	67 4125232143
68 4123432123	18 2323234541	68 3232541212	18 2541234321	68 1252145254
69 5414523414	19 1454523434	69 4141252321	19 2121452345	69 4125432325
70 5452341234	20 4525254145	70 3252341452	20 2343454523	70 3212145234
71 4541432341	21 3232543214	71 2525214141	21 1232545214	71 1212125432
72 5414543252	22 4145252141	72 5432345232	22 5412323434	72 2343212543
73 1212543434	23 4521452521	73 1212521454	23 1214525434	73 2141414323
74 4325414321	24 1254141412	74 2525254143	24 4523252343	74 2541452325
75 5412145214	25 4121434343	75 4321434145	25 4541254121	75 5414143232
76 3214121434	26 4541254325	76 4123452525	26 1214525232	76 3234543432
77 4343412123	27 5254323412	77 2343214545	27 4143234525	77 5434345214
78 4523232145	28 1432145234	78 3252121454	28 4545412345	78 1214143432
79 5254143252	29 1432525432	79 5214343254	29 5254323254	79 4145252523
80 1234545254	30 3254543412	80 2541414521	30 1454541232	80 3412543454
81 4323414121	31 1432521234	81 3454343232	31 5234325434	81 2345212343
82 5212345452	32 3412321454	82 5252543234	32 2541414123	82 2143232341
83 1214341412	33 5232325432	83 4523212343	33 2541212125	83 3412343414
84 1232543454	34 4325412323	84 2125454521	34 1414341212	84 5234523452
85 4321454341	35 1234143254	85 4123234523	35 2525432545	85 2125214523
86 3214525254	36 4341232525	86 2343412343	36 5212141254	86 4543452343
87 2541452545	37 4541432121	87 1414545214	37 5252143234	87 5232141412
88 3414125452	38 2323414143	88 3232121412	38 4545214343	88 2343254323
89 4323214145	39 5454521214	89 2525412543	39 1254145234	89 5212145254
90 4345254543	40 4125214345	90 5434525454	40 4521252543	90 3412321214
91 2521254143	41 4545254123	91 1212525432	41 2143234345	91 5254521432
92 5432521452	42 2525452343	92 5232345412	42 1252123454	92 4525232145
93 4123414125	43 4321412523	93 2143452541	43 2345254141	93 1434125252
94 2141254323	44 5214345214	94 1454325432	44 1254123252	94 2541252143
95 2143254321	45 3452543414	95 1252341214	45 4543212525	95 5254343412
96 2145452345	46 1412323414	96 4141234343	46 2323452543	96 1214521454
97 2141434325	47 1214323234	97 2141234545	47 2145254345	97 4541452525
98 4345212341	48 2323452123	98 5434525212	48 4125452321	98 2345454523
99 1234341232	49 4345234141	99 1454123432	49 2523454541	99 2525412345





# 10100-12099 MAZDA

**Keyblanks:**

Taylor **X188**  
 Silca **MZ13**  
 Curtis **MZ-16**

**Code Machines:**

1200 CM No. **XF68**  
 Codemax No. **4 - 253**

11600	11650	11700	11750	11800
00 5234525452	50 2323234143	00 5412543452	50 3432145414	00 2141454521
01 1414523434	51 1214541212	01 4121234545	51 4341452521	01 1214325234
02 1252525414	52 5414325214	02 1432141254	52 5434323414	02 5432143252
03 1252125412	53 2523432121	03 3214321214	53 4545412123	03 3432325434
04 1232145434	54 4341452143	04 4123252143	54 4521254341	04 3412123454
05 5212523412	55 4321232141	05 1232125414	55 2123454345	05 3414523212
06 2145232541	56 5252125414	06 2345254523	56 5234543234	06 4323434143
07 1234343452	57 4121232143	07 3452541452	57 2123452125	07 2143454321
08 4125232543	58 3254545212	08 4125252345	58 4541214523	08 4325454343
09 1212343412	59 5214125252	09 2541412125	59 3212345434	09 1212325454
10 2145452543	60 4121452545	10 1234525434	60 4345232321	10 3252321432
11 4125412523	61 4523412521	11 2545232521	61 2325454323	11 4345212523
12 5452321412	62 4523234525	12 2341234525	62 3432545434	12 2525254321
13 5214121454	63 5452543434	13 4343214145	63 2321254323	13 2343214341
14 4325234543	64 2121412545	14 3212125414	64 1254543214	14 1452321452
15 5432341234	65 4545232141	15 1434123252	65 4143254125	15 5254521252
16 1234323412	66 5454341212	16 3414525234	66 2121414525	16 4121454123
17 4343212341	67 1254341252	17 2321452141	67 2543452121	17 2321414523
18 5212145434	68 2543454121	18 1434521234	68 5232541234	18 2141434121
19 1414145234	69 5412323214	19 5214325412	69 3252545212	19 2141232321
20 1234541212	70 5214321252	20 3454321234	70 2543414323	20 1432345252
21 3412323454	71 5254145212	21 2121432123	71 1452343434	21 2143254121
22 2523412541	72 3212121434	22 5254543452	72 1254323252	22 4521234523
23 4323232543	73 5212341452	23 5214145254	73 4341432125	23 4145234145
24 3414521254	74 5212125452	24 4541212321	74 2343254521	24 3232543412
25 3412545254	75 5214523452	25 5412143232	75 4141212525	25 4345432145
26 2123432521	76 4525232341	26 4543232345	76 2125254341	26 5252343454
27 2321454543	77 4543234325	27 5454125412	77 2341212143	27 3452323214
28 1232121452	78 2123434325	28 5412143432	78 4321214541	28 3234125212
29 3412145232	79 4543432125	29 1232521434	79 2321434325	29 2325414121
30 4321252141	80 3414541214	30 2145434125	80 2345232121	30 3214123254
31 5454543254	81 2541254141	31 2323254523	81 1452545232	31 2345252543
32 1452141454	82 2521452541	32 4125434141	82 5232545454	32 2545432525
33 4341432323	83 2343454323	33 2121434341	83 5432125234	33 4541432545
34 2543232521	84 1232345234	34 2523254145	84 1452125452	34 4325232343
35 1212341412	85 2141234141	35 4321412323	85 4543432523	35 1412541434
36 1412145212	86 5432121214	36 2143412525	86 5452343232	36 2121432541
37 5412541454	87 4145212123	37 1254143232	87 2345252343	37 5414325452
38 3452541254	88 3412543254	38 3212321452	88 3432541252	38 1414343212
39 5412345234	89 3252543212	39 4541252325	89 5234523212	39 5234123254
40 2143214325	90 4523414321	40 4141232143	90 4341252345	40 3432345414
41 3414323454	91 5452541212	41 4343432543	91 2525432125	41 3432125454
42 1454521254	92 1214341234	42 3252145214	92 3412141234	42 1214523234
43 2141434523	93 4145412145	43 2343234523	93 2345432323	43 4321254345
44 2525214521	94 2521254321	44 1412343252	94 5412141434	44 4123434545
45 5412141252	95 1432123234	45 5452141254	95 2521414521	45 2325434341
46 4323454145	96 2121432341	46 4521454143	96 2345434121	46 1454143214
47 1452143434	97 2121434123	47 1254343452	97 5214121254	47 2545254325
48 1214123234	98 4543452123	48 2141252121	98 3234143214	48 4121414321
49 3214341214	99 2541432145	49 5432123214	99 1252143252	49 3454523254





# 10100-12099 MAZDA

## Keyblanks:

Taylor X188  
 Silca MZ13  
 Curtis MZ-16

## Code Machines:

1200 CM No. XF68  
 Codemax No. 4 - 253

11850	11900	11950	12000	12050
50 1412341414	00 2523254541	50 4123232545	00 3432523432	50 2543252341
51 2341434125	01 1212123452	51 4521434323	01 2345412545	51 1412341252
52 2123414521	02 4121232341	52 2123412545	02 3254525432	52 5454121454
53 4321454525	03 1432121414	53 5212321434	03 4341212145	53 5414125232
54 1434325452	04 2121414345	54 5214525252	04 2323214343	54 2325432145
55 2323432143	05 2545212141	55 3432321214	05 4125432121	55 5232143452
56 2343212345	06 1412125434	56 2141212523	06 2145434525	56 5414141232
57 5252345454	07 1234321252	57 4543214343	07 1234143412	57 4325234121
58 4545432521	08 1254521232	58 1432321434	08 2123414341	58 1254545214
59 5232321452	09 5414123214	59 5452321234	09 4125414541	59 4345214325
60 4525414123	10 4121254325	60 1452523254	10 4123214521	60 1414125454
61 4123254545	11 4543214121	61 5212543214	11 5252541214	61 2145214525
62 1412145432	12 4525454321	62 2525234325	12 1214145412	62 5412545454
63 3452125434	13 2323454125	63 5232145214	13 5412123254	63 5252521454
64 2145414125	14 1254145432	64 4143432123	14 4123432345	64 2341252141
65 4323254543	15 4543254145	65 4543214541	15 4521254543	65 3412341434
66 1432521432	16 4534143232	66 5214525452	16 1432141452	66 2521214523
67 2125414343	17 5432341414	67 2141254125	17 5232543234	67 1252543254
68 3434125452	18 5212345214	68 2543214123	18 3254341232	68 5452521432
69 3214125214	19 3212545432	69 2341232125	19 2121214345	69 5412325234
70 4121214525	20 5232545252	70 2545414523	20 2321414143	70 5432145212
71 2125434523	21 5454325434	71 1234123434	21 5214323212	71 3414123252
72 1432325254	22 3232341454	72 3212543414	22 4343412345	72 5254543252
73 1234145212	23 2341454125	73 3452345234	23 1214543452	73 3252141212
74 3412143414	24 4141214525	74 2143234141	24 4325214341	74 3454125232
75 4143432321	25 2145452121	75 5252121452	25 4321412123	75 1252141434
76 5432323254	26 5432125412	76 2521454541	26 4521452325	76 1212345252
77 2325414325	27 5412541234	77 1454125252	27 3454141252	77 2145252123
78 4523214123	28 4523252545	78 3434321212	28 5232523414	78 5434521414
79 2541432525	29 3252345212	79 4525234323	29 4341212541	79 4143252343
80 1252323432	30 3452345412	80 5212143254	30 5423245452	80 1454325232
81 1454321454	31 5412521434	81 3454143212	31 2121454121	81 3234341254
82 2521234145	32 1412123234	82 4525432343	32 1234141452	82 5454323234
83 3254121234	33 4521254123	83 2343452321	33 4323414545	83 3234545252
84 1412125214	34 2145214141	84 3414125212	34 5234123432	84 3214343232
85 5232521414	35 2521434543	85 3212143454	35 4523434521	85 3234141234
86 4321252545	36 3232143412	86 3232341254	36 3432525234	86 4541452341
87 1432123412	37 1412123432	87 5212525454	37 2543234543	87 4121234141
88 1434523234	38 2321432521	88 5452523214	38 2343414121	88 5434541252
89 2321254141	39 1214545432	89 2521214143	39 4345412343	89 2125234541
90 5232541434	40 1234521412	90 2543432545	40 4145452125	90 2345254321
91 5234521252	41 1214125254	91 5252325414	41 1214143212	91 3454321412
92 3234525412	42 1434143234	92 2145412341	42 4321434523	92 2341252541
93 2123432325	43 4321454125	93 4145214521	43 3232521454	93 3214143412
94 2541212545	44 3434141214	94 2325454143	44 2325214121	94 2325412141
95 5212325412	45 5432523452	95 2541252323	45 4123434321	95 3414121452
96 2121234321	46 4143252543	96 5434325252	46 2543252143	96 4141412341
97 5254325212	47 4325434125	97 4345232545	47 5434145254	97 4321432143
98 1212341214	48 4123452141	98 1454341254	48 5214323452	98 5254343212
99 4145452541	49 2323412143	99 4521212343	49 2543234321	99 2123254525



# ALOA Chapters

"There are chapters of ALOA located all over the nation and some in foreign countries also. Avail yourself of the opportunities that the association offers."

Some time ago, the Associated Locksmiths of America (ALOA) began a chapterization program to make the association more accessible to its members. The following pages list out ALOA chapters both in and out of the U.S. The list is complete as far as we know, although new chapters may have been formed since we have gone to press. Take the trouble to join a chapter near you if you have not already done so. ALOA is **your** association: You can make your voice heard.

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CO 80214, (303) 233-0434.

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Sect.: Bob Merrick

Treas.: John Thomas

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Sect.: Margaret H. (Peggy) Smart, RL

Treas.: Richard Rome, CML

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V-Chman: Dale Crosby

Sect.: Aggie Cooney

Treas.: Aggie Cooney



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Treas.: Elvis Hammerschmidt, RL

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V-Chman:

Sect.: Christy Baca, RL

Treas.: Joe Baca

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Treas.: not given

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Treas.: Ken Caddell, CPL

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Sect.: Keith Andrus (Acting)

Treas.: Calvin Lauer, RL

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# Shop Talk

Helpful Questions and Answers

Written by *all* of the following authors: Dave McOmie, Jack Roberts, Don O'Shall, Robert Sieveking, Dale Libby, and Shirl Schamp.

Send your locksmith questions, along with a self-addressed stamped envelope to: Shop Talk, The National Locksmith, 1533 Burgundy Pkwy., Streamwood, IL 60107.

*Q: Please help me with a safe opening. I have a Sargent & Greenleaf safe with no combination. I have tried manipulating it a few times with no success. I cannot locate this particular safe in any of my manuals. A diagram of how this brand of lock works and drilling points,*

*etc. would be very helpful.*

*Manipulating was tough to do because of a gap of 20 missing numbers. I have sent a diagram of the lock and patent numbers along with this letter. No model number was available.*

*I enjoy reading your column very much; it has been very helpful in my growing business. Thanks for any help you can give me.*

*Jerry Cox  
Illinois*

A: Remember, we all had to start somewhere. First of all, there is no such thing as a Sargent & Greenleaf safe. No wonder you could not find it in any of your manuals. S&G is the name of the lock, not the safe. In principal, it is the

same S&G lock used today, and works the same way, with the last turn being to the right-stop position. These locks were very well made, and sometimes are harder to manipulate than newer versions.

The reason for the 20 number gap on the dial is simple to explain. The lock-makers of the early 19th century did not want anyone to put the last number of the combination in the forbidden (twilight) zone, which occurs even today between 0-20 if the lock is correctly handed. What you have to do, when manipulating, is to use a fine line marker or a scratch-all to mark your contact readings on the clear gap area of the dial. Take your readings from this area, and when they narrow, you



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will know that you have picked up a number.

Finally, since the dial is probably pinned to the spindle, do not try to pull the dial. For drilling, you will have to drill through the dial ring, or outside of it, angling in to the lock case. Depending on the thickness of the door, the angle of drilling will have to be adjusted accordingly. Drill somewhere where you will not injure any of the lock mechanism, because parts for this old of a lock are not easy to come by. In fact the lock case is probably of a different size than those used today. The lock can be either a three or four wheel variety. Did you count your wheels before trying to manipulate? You might benefit by our book called *Manipulation*. It is designed to teach you this worthy skill. Good luck. 07

\*\*\*\*\*

I read with interest the letter from Don Dierker in Illinois about the "R" series Pundra locks. (*Shop Talk*, April 1989.) I have had the same frustration dealing with both Pundra and the furniture manufacturer in question. However I was able to put together a code series for these locks and they are as follows.

R 100 - 53331	R 130 - 31115
R 101 - 53313	R 131 - 31151
R 102 - 53133	R 132 - 31511
R 103 - 51333	R 133 - 35111
R 104 - 55331	R 134 - 55111
R 105 - 55313	R 135 - 51511
R 106 - 55133	R 136 - 51151
R 107 - 53513	R 137 - 51115
R 108 - 35111	R 138 - 53511
R 109 - 35113	R 139 - 55311
R 110 - 35131	R 140 - 51351
R 111 - 35311	R 141 - 55511
R 112 - 33511	R 142 - 51531
R 113 - 33151	R 143 - 51153
R 114 - 33115	R 144 - 53551
R 115 - 31315	R 145 - 55531
R 116 - 31351	R 146 - 53515
R 117 - 35551	R 147 - 55135
R 118 - 35515	R 148 - 55513
R 119 - 35155	R 149 - 55315
R 120 - 31555	R 150 - 53155
R 121 - 51111	R 151 - 51355
R 122 - 15111	R 152 - 13511
R 123 - 11511	R 153 - 13351
R 124 - 11151	R 154 - 15151
R 125 - 51113	R 155 - 15511
R 126 - 53111	R 156 - 15115
R 127 - 51311	R 157 - 15551
R 128 - 51131	R 158 - 15113
R 129 - 31111	R 159 - 15513

R 160 - 15153	R 180 - 11513
R 161 - 15553	R 181 - 11313
R 162 - 15355	R 182 - 11331
R 163 - 13555	R 183 - 11551
R 164 - 15535	R 184 - 15311
R 165 - 13551	R 185 - 13511
R 166 - 13515	R 186 - 13331
R 167 - 13555	R 187 - 13113
R 168 - 13155	R 188 - 11131
R 169 - 13355	R 189 - 55551
R 170 - 11333	R 190 - 55511
R 171 - 11351	R 191 - 55113
R 172 - 11151	R 192 - 55531
R 173 - 11531	R 193 - 15555
R 174 - 11555	R 194 - 13333
R 175 - 11355	R 195 - 55333
R 176 - 15333	R 196 - 33555
R 177 - 15313	R 197 -
R 178 - 15155	R 198 - 33111
R 179 - 15111	R 199 - 33551

These locks, as other Pundra locks of this type, use the Y-11 key blank. In this code the 1 is a no-cut. In other words there will be no cut at this point. The three cut is half of the five cut and is the same as the standard Pundra 101 to 330 code. As you have noticed there is no code for R-197 or R-200 code. I put this code together by reading a series of keys that a customer of mine had up on a pegboard. It was one swell Friday afternoon. He told me that despite the huge number of desks and cabinets he owned with this code, he never had an R-197 or R-200 or anything higher than R-200.

I can't guarantee the accuracy of these codes because of the way I obtained them and human error, but I have used them steadily for about four years and I haven't hit a bad one yet. I am quite sure it is dead on. If anyone out there can figure out any logical sequence for these cuts and therefore determine R-197 for me I would like to hear from you or perhaps someone out there has stumbled onto an R-197 lock and can decode it for me. If I was really desperate I could order a key from the manufacturer and see what happens but I doubt that I would get a response.

Getting back to that 101-330 code mentioned in the reply to Mr. Dierker's letter, there are a few codes buried in this code as well. The Herman Miller Furniture Company was using a Pundra code for a while that went HM-1, HM-2 etc. The HM-1 would be equal to a 201 and the HM-2 would be equal to a 202 and so on. This also applied to the Storwal International lock code where the code 6-1 would be 201 and the 6-2 would be 202 etc. The All-Steel

locks had a code of P101 to P330 and these numbers were identical to the standard 101 to 330 code. The Cole Furniture Company for a while was using a code of 5001, 5002 etc. These codes translated to 201, 202 and so on.

Every once in a while you will find a lock with the preface "W." This Pundra code is a variation on the standard 101-330 code. You just have to subtract 300 from the code. In other words W-555 is equal to the standard 255 and W-401 is the same as 101.

I hope these codes are of use to Mr. Dierker and anyone else who has run into these locks.

Now in return I would like anyone out there with the codes for L & Flocks (I believe it stands for Leowens and Farrell or something like that) from England I would like to hear from you. They are not hard to impress but the convenience of being able to cut from code saves time and wear and tear on the lock itself.

Ken Della Vicenza  
Canada

*Editor's Note: Have any unpublished codes? Send them to the Editor and we will send you some in return.*

\*\*\*\*\*

*Q: There was a man with a Rolls Royce that had his key stolen and he wanted me to make him a new key. It took a 62HG blank and he sent to Dallas, Texas for the blank.*

*I took that glove box lock out since he said it was the same as the ignition lock. It was very simple to take apart. It was in a square box like a desk lock, and put together with two screws on the outside and one on the inside. I got it apart but I couldn't shim or pick one pin. Can you tell me how to get it apart? I couldn't get a shim past the first pin in the back. It is a pin tumbler lock.*

*We called the Rolls Royce people in Dallas, Texas for help and they said the blanks were all they sold. They could not cut us a key and they did not have any codes available from the manufacturer or in my code books. Can you tell me why I can't get the lock apart? Is there any way to get it apart?*

*The man was quite upset because he couldn't get anyone to cut him a key. I told him I could cut one if I could get it apart. It is a Yale lock and the key is marked Yale.*

Juanita Ramsey  
Texas

A: Well, Juanita, I guess that maybe I would be just a bit upset also if I had a





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Rolls and couldn't get a key made. First, I think maybe you could have impressed the key and gotten the man on his way. Second, are you positive that you are coming in contact with the last pin? There is a groove and boss in some of the RR locks, near the front, that you may be contacting. I have not disassembled this lock since the occasion to do so has never arisen. This is a good opportunity for you to practice your impressing skills.

But the car does use a Yale 5-pin tumbler lock. They use a key profile specific to Rolls Royce. Popular keyways are: 62HC, 62HB, 62HD, 62HA, and X28.

If you own code books from *The National Locksmith*, you could call our code hotline for help with the codes. Chances are they could tell you the procedure to determine the correct code. 03.

\*\*\*\*\*

*Q: On October 28, 1988, I was called to open a Chrysler LeBaron convertible. The keys were laying on the seat, so I could not see the door key to cut a key by looking at the correct cuts and transferring them to a new blank.*

*I have a tool which calls for me to go for the door latch hook and pull it up. I fished around quite a while and could not find anything to pull that would open the door. I was short on time, so I got the VIN number and gave it to the lady and asked her to call the Chrysler dealer for a code number and I would cut a key by code for her. By the way, this was a 1987 Chrysler.*

*The lady came to the shop later that afternoon and said that she had called the Chrysler dealer and they sent out a person called a "Valet Man." He zapped that door open in 30 seconds. Now, that is all that guy does is to open Chrysler products. She said that he used something like a ruler and went into the window and hit the back of the lock. What can you tell me about this procedure?*

*Harrald's Mobil Locksmith  
Arizona*

*A: As the saying goes, there is more than one way to skin a cat, and to open a Chrysler. I am amazed by the phalanx of tools, systems, and techniques that are used to open today's modern cars. My first suggestion is that you might not have used your tool correctly. In addition to any car opening tools in use today, an inspection light is required along with the use of a window wedge.*

*I use a flat Slim-Jim tool that works*



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on almost 90 percent of all Chryslers. If you had used an inspection light after wedging open the door, you would have seen a rod attached to the back of the Chrysler door cylinder that is very close to the edge of the door and in fact follows the edge of the door configuration. Also with the light, you could have hooked this rod as it attached to the back of the door cylinder, and with a simple lifting, the door would have unlocked. You could have lifted it with your Slim-Jim, a simple bent piece of still wire, or almost anything else that would fit in the door area created by the wedge.

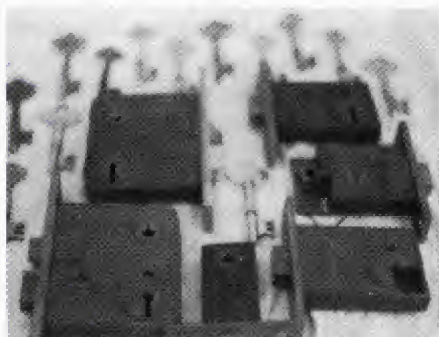
The other method of attack is to go to the mechanism at the front of the door, and again, with a piece of metal with a bend in it, move the bellcrank which would have opened the door quickly also. This is what the valet man did, according to your drawings.

In conclusion, do not panic. Out of all things that locksmiths do, I find car opening the easiest, fastest, and the most profitable. Look into the door with a light, look at the linkages, and move them accordingly. There are no secrets with the light, just profits. By the way, a VIN number will not get you a code. 07

\*\*\*\*\*

*Q: I recently bought several old mortise locks from another customer. I would appreciate any information on the approximate value and age of these units. I have three styles. All units are from an old schoolhouse, and are Bellville locks.*

*The first style is the bigger one in photograph one. There are three types of lever bit locks, bronze in finish. I, however, have one which appears to be chrome plated over bronze. On the inside of the lock, engraved in the case, is the number 791 1/2 M. On the top of the units on the brass are "V" numbers: V 57, V 60, V 68, and V 82.*



1. Old mortise locks submitted for value and age determination.



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*The second style is just a deadbolt style, with engraving, barely legible, on the inside of the case. It is M 881. The deadbolt has engraved on it 891½. The "V" numbers are V 91, V 125, V 128, and V 128 86.*

*The third style is a latch with "NO 9" imprinted on the case.*

*All these units are in excellent operating condition. The locks came with bronze plates and handles, and several old keys.*

*Thanks for any information that you can give me.*

Gilles Decur  
Canada

A: Gilles, I suppose there are close to fifty million pounds of bit key mortise locks that have been scrapped through the years and apparently very few people have an interest in them as collector's items due to the bulk and weight. A few people do have collections of knobs and escutcheons. The Antique Dooknob Collectors of America boasts membership of more than 200, and key collectors abound by the thousands.

The only complete mortise locks that we have seen in a collection are those of highly ornate design that border on works of art rather than door hardware. From your description and photographs it would appear that your knobs and escutcheon are stamped rather than cast which would place them in this century and give them a value of almost zero. My guess is that they were produced after 1920.

We have done a considerable amount of research for the name "Belleville" and do not find it in any of the U.S. catalogs of the late 1800's and early 1900's. I would suspect that the numbers 791½, etc. are case part numbers that refer to the function of the lock and that the V numbers could be the location or keying.

The piece with the chrome face plate appears to be identical to the other latch, deadbolt function, however the depth of field in your photo leaves a bit (that's a pun) to be desired. It is possible that these locks were made by a Canadian or English firm for which we have no research materials available.

If you have a real interest in mortise locks and antique door hardware I suggest that you contact Dorothy Ann Miller, president, Antique Doorknob Collectors of America, 8074 Cedar St., Omaha, NE 68124, who can furnish you with a rather complete list of resource and research materials. 03

\*\*\*\*\*

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## High Tech Tools

*Continued from page 38*

until you can form a mental picture of how the tool is used to defeat the locking system.

On the next page you will find a series of actual photographs of the inside of the Corniche's door. A quick glance at this page and you should be ready to unlock the door. (See *illustration 4*.)

Start by placing a wedge (or two wedges if you have an extra) between the weather-stripping and the glass. This will make it easier to insert the tool and protect the door.

Following the instructions, you'll now insert the yellow handle tool into the door with the tip of the tool pointing towards the rear of the car. Watching the rear door handle inside the car for movement, you will use the tip of the tool to hook the lock linkage just behind the rear inner door handle. Once you have accomplished this, move the lock rod towards the front of the car and the door will be unlocked.

With practice, this entire procedure only takes a couple of minutes. What makes this system so simple is the use of tools that are specifically designed for the type of door linkages you are trying to defeat. Once again, use the correct tool and you'll get the job done right. ■

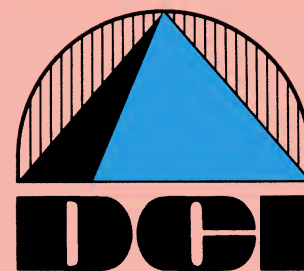
## Fichet-Bauche

*Continued from page 66*

for the soul, so here goes: On Brad's desk I noticed what appeared to be a postcard of a gorgeous blonde pin-up girl, you know, the kind that we usually think of as an artist's rendition, not actually existing in reality. So, being somewhat of a wishful thinker myself, I remarked on her remarkable physical endowments, and said to Brad, didn't he wish she were his girlfriend. As Brad's face blushed, I knew I had really blown it, and felt my own countenance go crimson. I knew what he was going to say before he said it: "Uh, Dave, uh, that, uh, that is my girlfriend." Gawrsh Dave, wide open and insert clown-size clodhopper! Oh well, you can't blame a guy for speaking his mind...can you?

In closing, I would like to thank Philippe, Brad, and the rest of the crew for taking the time to give me the king's tour of Fichet, and for treating me to a royal lunch. As for Brad, I'm still not sure whether to apologize or congratulate him!

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